

USER MANUAL

READ CAREFULLY BEFORE OPERATION

ULTRA HD Blu-ray Disc Players

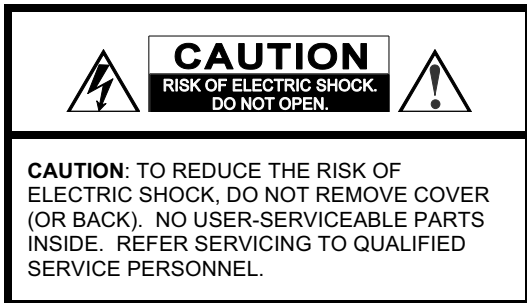
UBR-X100 / UBR-X200


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IMPORTANT INFORMATION



 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 operation and maintenance (servicing) instruction in the literature accompanying the appliance.

WARNING:

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

THE APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES SHALL BE PLACED ON THE APPARATUS.

Important Safety Instructions

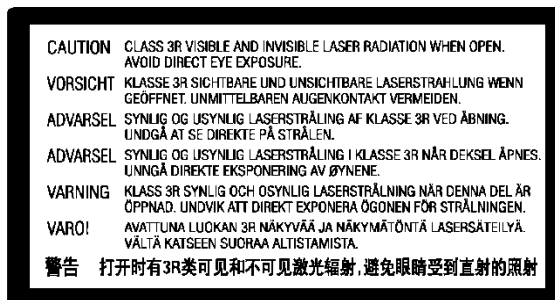
- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do 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 polarised or grounding-type plug. A polarised 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 is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. Protect the power cord from being walked on or pinched, particularly at plug, receptacle, and the point

CAUTION:

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CLASS I LASER PRODUCT



This label is located on the laser protective housing inside the product.

- 10) Only use attachments/accessories specified by the manufacturer.
- 11) Use only with the 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.
- 12) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13) 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.
- 14) Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.



Precautions

- Before connecting the AC power cord to the appliance, make sure the voltage designation of the appliance corresponds to the local electrical supply. If you are unsure of your power supply, contact your local power company. The acceptable power input range is AC 110V–120V~ / 220V–240V~, 50/60Hz. (UBR-X100)
- The apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.
- The player is still receiving power from the AC power source as long as it is connected to the wall outlet, even if the player itself has been turned off.
- Unplug the power cord if you are not going to use the product for an extended period of time. Hold the power plug when unplugging. Do not pull on the cord.
- The main plug is used as the mechanism for cutting off power, therefore make sure it is easy to unplug.
- To ensure proper ventilation around this product, do not place this product on a sofa, bed or rug. When installing this product on a wall or bookshelf, you need to provide appropriate space: we recommend leaving 4 inches (10 cm) of free space at the top, the sides and the rear.
- High temperature will lead to abnormal operation of this unit. Do not expose this unit or batteries to direct sunlight or near other heating objects.
- When moving the player from a cold location to a warm one, or vice versa, moisture may condense on the laser pickup unit inside the player. Should this occur, the player may not operate properly. In such a case please turn the unit on for 1-2 hours (without a disc) to facilitate moisture evaporation.



CE mark

This product complies with European Low Voltage (2006/95/EC), Electromagnetic Compatibility (2004/108/EC) and Environmentally-friendly design of Energy-related Products (2009/125/EC) Directives when used and installed according to this instruction manual. This equipment complies with CE radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.



WEEE symbol

Correct Disposal of This Product. (Waste Electrical & Electronic Equipment) Applicable in the European Union and other European countries with separate collection systems. This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. remote handset) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of household waste and recycle them responsibly to promote the sustainable reuse of material resources. Users should contact either the retailer where they purchased this product, or REAVON for details of where and how they can arrange for environmentally safe recycling.

Trademarks

- “ULTRA HD Blu-ray”, “Blu-ray Disc”, “Blu-ray 3D”, “BONUSVIEW” and “BD-Live” are trademarks of Blu-ray Disc Association.
- Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries.
- DVD Logo is a trademark of DVD Format/Logo Licensing Corp., registered in the U.S., Japan and other countries.
- Super Audio CD, SACD and the SACD logo are joint trademarks of Sony Corporation and Philips Electronics N.V. Direct Stream Digital (DSD) is a trademark of Sony Corporation.
- “AVCHD” and the “AVCHD” logo are trademarks of Panasonic Corporation and Sony Corporation.
















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DOLBY AUDIO™

- Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio and the double-D symbol are trademarks of Dolby Laboratories.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- “Cinavia” is trademark of Verance Corporation.
- All other trademarks are the properties of their respective owners.

Compatible Disc Types

Logo	Features	Manual Icon
  	BD: Supports 4K Ultra HD Blu-ray and Blu-ray with Bonus View and BD-Live content, including Blu-ray 3D discs. A 3D-capable display with compatible glasses is required for 3D playback. BD-R/RE, both single- and dual-layer are also supported.	
	DVD: Plays commercially-released DVDs, as well as finalized DVD±R/RW.	
	DVD-A: High-resolution stereo or multi-channel audio. Some DVD-Audio discs also contain a DVD-Video portion.	
	SACD: High-resolution stereo or multi-channel audio. Note: some SACDs use a hybrid format with both a CD and a high resolution DSD layer. (UBR-X200)	
	CD: Supports standard Red Book CDs, as well as CD-R/RW.	
	AVCHD: High-definition digital video camera format, often in the form of a DVD±R or flash memory.	

Discs that cannot be played

- BDs with cartridge
- DVD-RAMs
- HD-DVDs
- Data portion of CD-Extras
- DVDs / Blu-Rays with a region code not matching the player's region code
- Some Dual-Discs: A Dual-Disc is a two-sided disc with DVD-video on one side and digital audio on the other side. The digital audio side does not meet the technical specifications of the Red Book CD format so playback is not guaranteed.
- Audio discs with copy-protection may not be playable.

Notes about BD-ROM compatibility

Since the Blu-ray Disc specifications are new and evolving, some discs may not play properly depending on the disc type, version and encoding. It is possible that a Blu-ray Disc manufactured after the player uses new features of the Blu-ray Disc specifications. To ensure the best possible viewing experience, the player may need a firmware or software update from time to time. Please visit REAVON's web site www.reavon.com to check if updates are available.

Disc care and handling

- To keep the disc clean from scratches or fingerprints, handle the disc by its edge. Do not touch the recorded surface.
- Blu-ray Discs record data in very high density and the recorded layer is very close to the disc surface. For this reason, Blu-ray Discs are more sensitive to dust and fingerprints than DVD. Should you encounter playback problems and see dirty spots on the disc surface, clean the disc with a cleaning cloth. Wipe the disc from the center out along the radial direction. Do not wipe the disc in a circular motion.
- Do not use record cleaning sprays or solvents such as benzene, thinner and anti-static spray.
- Do not attach labels or stickers to discs as this may cause the disc to warp or become too thick, resulting in playback issues and a potentially stuck disc.
- Avoid exposing the discs to direct sunlight or heat sources.
- Do not use the following discs :
 - Discs with exposed adhesive from removed stickers or labels. The disc may get stuck inside the player.
 - Warped or cracked discs.
 - Irregularly shaped discs, such as heart or business card shapes.

Cinavia Notice

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

This product incorporates proprietary technology under license from Verance Corporation and is protected by U.S. Patent 7,369,677 and other U.S. and worldwide patents issued and pending as well as copyright and trade secret protection for certain aspects of such technology. Cinavia is a trademark of Verance Corporation. Copyright 2004-2013 Verance Corporation. All rights reserved by Verance. Reverse engineering or disassembly is prohibited.

This update includes Cinavia® content protection technology. Information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at <http://www.cinavia.com>.

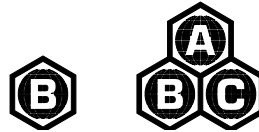
More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at <http://www.cinavia.com>. To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA,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

IMPORTANT INFORMATION

Region management information

This player is designed and manufactured to respond to the region management information. If the region number of a BD-Video or DVD disc does not correspond to the region number of this player, this player cannot play the disc.

BD-Video: Blu-Ray Discs with marks containing the region code B.



DVD-Video: DVDs with marks containing the region code 2 and ALL.



Accessories

Please check that the following parts are included in your UBR-X100 / X200 package :



User Manual



Power Cable, about 4.5 feet



Remote Control

COMMON CONNECTION METHODS

Connecting to an A/V Receiver via HDMI

- If you have an HDMI-capable receiver that supports 4K HDR video pass-through, you can simply run an HDMI cable from the player's HDMI OUT (Main) output into your receiver and enable HDMI video pass-through on the receiver (see your receiver's owner's manual for more information). The receiver usually has an HDMI output that you can connect to your TV to pass the video signal.
- Some receivers contain a mixture of HDMI 2.0 and HDMI 1.4 ports. In order to view 4K UHD content, ensure that you are connecting the UBR-X100 / X200's HDMI OUT (Main) output into a HDMI 2.0 and HDCP 2.2 compliant input of the receiver.

NOTE

- HDMI (High-Definition Multimedia Interface) is a single cable that can transport both audio and video from your player to your display. However, be aware that HDMI is an evolving standard, and compatibility issues may appear. A receiver that supports audio input over HDMI is required. Some receivers offer HDMI ports solely for video switching. If your receiver does not have audio input capability, please read the following sections regarding other connection methods.
- For Blu-ray Discs, a receiver that supports HDMI 1.4 or later with decoding capability for Dolby TrueHD and DTS-HD Master Audio is recommended.
- For 4K UHD Blu-ray discs, a receiver that supports HDMI 2.0 and HDCP 2.2 or later is required. It is recommended to use Premium High-Speed HDMI Cable to watch 4K UHD movies.
- The UBR-X100 / X200 support the latest object-based surround audio formats, such as Dolby Atmos and DTS:X.
- Please check the specifications of your receiver to ensure that it meets these requirements.

Connecting to a TV via HDMI

- Use an HDMI cable to connect the player's HDMI OUT (Main) output directly into your TV. This connection method delivers both audio and video in a pure digital format via a single cable.
- In order to play 4K UHD content, you must connect the UBR-X100 / X200's HDMI OUT (Main) output into an HDMI 2.0 and HDCP 2.2 compliant input of the 4K UHD TV.

NOTE

- This connection method will output sound via the TV's speakers. For optimal sound quality, it is recommended that audio be transferred from the UBR-X100 / X200 to an A/V receiver with connected speakers.
- You will need a UHD TV that supports HDMI 2.0 and HDCP 2.2 in order to watch UHD Blu-Ray and other UHD content in 4K resolution.
- You will need an HDR-capable TV to watch HDR content.
- Do not connect the HDMI OUT (Audio Only) output to your TV.

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

- The UBR-X100 / X200's Dual HDMI connection mode ensures that you can enjoy the highest possible video quality and resolution, in addition to high bit rate audio content. Use an HDMI cable to connect the HDMI OUT (Main) output to your TV, and another HDMI cable to connect the HDMI OUT (Audio Only) output to your receiver.
- This configuration is recommended when you have a 3D or UHD compatible display, but your receiver is not 3D or UHD compatible. This configuration will allow you to send the video signal (3D or UHD in this case) directly to the TV and send the audio signal to the receiver.

NOTE

- Please refer to the notes on HDMI connections available on pages 6 and 7.
- If your receiver does not have HDMI audio input capability, please try the alternate connection methods discussed on pages 8 to 10.

Connecting to a Stereo Audio System via RCA-style Cables (UBR-X200 only)

- If your audio system offers only stereo audio inputs, or if you would like to connect a dedicated stereo audio system in addition to the surround audio system which is already connected to the HDMI, coaxial or optical outputs, you can connect the dedicated stereo audio system to the STEREO AUDIO OUT terminals of the player.(R, L)
- Two sets of dedicated stereo audio outputs are available on the UBR-X200 : the RCA-style connectors and the XLR balanced connectors. Preference should be given to the XLR connectors since they may provide better noise rejection and signal integrity.

NOTE

- The STEREO AUDIO OUT terminals (R, L) automatically down-mix the multi-channel audio source into the stereo signals.

Connecting to a Stereo Audio System via XLR Balanced Cables (UBR-X200 only)

- You can also connect the BALANCED STEREO AUDIO OUT (BAL) to your stereo audio system. Three-pin (XLR3) cables are needed, and the XLR terminals on the player are male type.

NOTE

- Balanced audio connectors are used mostly in professional audio electronics, such as high quality microphones and inter-equipment connections. The UBR-X200 uses the 3-pin XLR connector which transmits a pair of differential signals (positive /negative). The amplifier extracts the voltage difference between differential signals, thus the common noise can be rejected and the signal integrity is improved.

Connecting to an A/V Receiver or Amplifier via Analogue Outputs (UBR-X200 only)

- The UBR-X200 is equipped with a 7.1ch analogue audio output section that can be connected to the 7.1ch analogue input section of an A/V receiver or amplifier for audio output. This method is required if the A/V receiver does not have HDMI inputs. It is also a preferred connection method for taking advantage of the UBR-X200's digital-to-analogue converter (DAC).
- Please use up to 8 RCA-style audio interconnect cables to connect the FL (Front Left), FR (Front Right), SL (Surround Left), SR (Surround Right), C (Centre), SW (Subwoofer), SBL (Surround Back Left) and SBR (Surround Back Right) analogue output terminals of the UBR-X200 to the corresponding multi-channel analogue audio input jacks of your A/V receiver or amplifier.

-
- If the A/V receiver or amplifier only has 5.1ch audio inputs, you can omit the SBL (Surround Back Left) and SBR (Surround Back Right) outputs. In the **Setup Menu**, set the **Down Mix Mode** to **5.x** in the **Speaker Setting** section of the **Audio** section (see page 30).
 - If your audio system offers only stereo audio inputs, or if you would like to connect a dedicated stereo audio system in addition to the surround audio system which is already connected to the HDMI or S/PDIF outputs, you can connect the dedicated stereo audio system to the FL (Front Left) and FR (Front Right) outputs of the player. In the **Setup Menu**, set the **Down Mix Mode** to **Stereo** in the **Speaker Setting** section of the **Audio** section (see page 30).

Connecting to an A/V Receiver or Amplifier via S/PDIF (Coaxial / Optical)

- Please use either a 75-Ohm coaxial digital audio cable with RCA-style connectors or an S/PDIF optical digital audio cable to connect one of the digital audio outputs to the corresponding input terminal on your A/V receiver. For detailed setup of coaxial/optical signals, refer to page 29.

NOTE

- 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 sent through the coaxial or optical digital audio output. A reduced resolution version of the same audio track will be output instead. To listen to high resolution audio formats in their best quality, please use the HDMI connection if you have a receiver that handles HDMI audio (see page 6) or use the multi-channel analog outputs if you don't (see page 8).
- Due to copyright restrictions, SACD audio cannot be sent through the coaxial or optical digital audio output. To listen to SACDs, please use the HDMI or analogue audio connections.
- Due to copyright restrictions and bandwidth limitations, full resolution audio from DVD-Audio discs cannot be sent through the coaxial or optical digital audio output. To listen to DVD-Audio in full resolution, please use the HDMI or analogue audio connections.

Connecting to the Internet

The UBR-X100 / 200 players can play audio, video and photos via your home network. This feature supports DLNA and SMB/CIFS protocols (*Feature under development*).

The UBR-X100 / 200 players also support the BD-Live feature offered on some Blu-ray Disc titles. BD-Live offers extra downloadable content and additional online interactive programs. Content available on BD-Live varies by disc and studio, and may include additional subtitles, commentaries, movie trailers, games, and online chat.

In order to use the BD-Live feature, the player needs to be connected to a broadband Internet connection. It is not necessary to connect to the Internet if you do not intend to use BD-Live.

Internet Connection via Ethernet Cable

- Plug one end of a network cable (Category 5/5E straight Ethernet cable) into the LAN port on the back of the UBR-X100 / 200 players.
- Plug the other end of the network cable into a LAN port on the broadband router or modem.
- After physically connecting the player to a broadband Internet connection, some network configuration may be required. Refer to the **Network** section on page 36 for details.
- Refer to the operating instructions supplied with the broadband router or modem, or contact the Internet service provider for questions related to setting up the router or modem.

NOTE

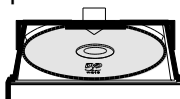
- Only connect the LAN port of the player to an Ethernet port that supports 1000BASE-T or 100BASE-TX or 10BASE-T. Connecting to any other ports or jacks, such as a phone jack, can damage the player.

BASIC OPERATIONS

Disc Playback



1. Press the **POWER** button to turn on the player.
2. Press the **OPEN/CLOSE** button to eject the disc tray.
3. Place the disc with the label side facing up and the recorded side facing down.



4. Press the **OPEN/CLOSE** button again to retract the tray.
5. The player will read the disc information and begin playback.
6. To stop playback, press the **STOP** button.
7. To turn off the player, press the **POWER** button.

OPTION Menu



1. During media file navigation and playback, press the **OPTION** button on the remote to enter the **OPTION MENU**, which allows you to conveniently access various settings and playback features.
2. When the **OPTION MENU** is displayed, press the **UP/DOWN ARROW** buttons on the remote to highlight a particular item, then press the **OK** button to confirm.

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

During Music File or Music Disc (CD, SACD [UBR-X200]) Playback :

- Track : Current and total tracks.
- Time : Current, elapsed and remaining track time.
- Normal : Select Shuffle, Normal or Random playback mode.
- Bitrate : Audio bitrate of the current track.
- Short Skip : Skip forward 30 seconds during playback.
- Replay : Skip back 10 seconds during playback.

During Video Discs (DVD, BD) or Video File Playback :

- File : Current and total files.
- Titles : Current and total title numbers.
- Chapter : Current and total chapters.
- Time : Current, elapsed and remaining file time.
- Normal : Activate Shuffle, Normal or Random playback mode.
- Audio : Choose the desired audio track from all available audio tracks.
- Angle : Change the viewing angle. This function is only available when the DVD/BD is recorded with multiple angles.
- Subtitle : Choose the desired subtitle language from all available subtitles.
- Subtitle Style : Set the subtitle display options. (only available on external subtitle files).
- Secondary Video : Change the display mode to picture in picture mode. (PIP)

- Secondary Audio : Mix the Secondary Audio and menu sounds into the primary audio.
- Still off : Still off.
- Bitrate : Audio, Video and total bitrate of the current file.
- Short skip : Skip forward 30 seconds during playback.
- Replay : Skip back 10 seconds during playback.

During Photo File Playback :

- File : Current and total files.
- Play Mode : Select Normal, Shuffle or Random playback mode.
- Slide Show : Select the slideshow speed : slow, middle or fast.
- Transition : Change slideshow transition effect.

Fast Forward and Reverse



You may fast forward or reverse during playback.

1. Pressing the **FWD** button on the remote control to start fast forwarding playback. Each press of the **FWD** button increases the playback speed in the following increments :



2. Pressing the **REV** button on the remote control starts fast reverse playback. Each press of the **REV** button reverses the playback speed in the following increments :



NOTE

- Some Blu-ray Discs using BD-Java technology may have their own fast forwarding and reversing control. The actual speed varies by disc, and a progress scale may be displayed by the disc.

Pause and Frame-by-Frame



1. During playback, pressing the **PAUSE** button temporarily pauses the program. In this mode, a **PAUSE** icon will appear on the TV screen.
2. While a DVD or Blu-ray Disc is paused, pressing the **PREV** or **NEXT** button moves back or forward the video frame-by-frame.
3. Pressing the **PLAY** button resumes normal playback.

NOTE

- UBR-X100 / X200 players don't support reverse video frame-by-frame or slow playback while a 4K UHD Blu-ray Disc is paused.

Blu-ray Disc Menu Navigation



1. Blu-ray Discs usually contain a **Top Menu** and a **Pop-up Menu**. The Top Menu normally appears at the beginning of playback, after the previews and copyright messages. The **Pop-up Menu** can be accessed during the movie without interrupting playback.
2. During playback, press the **POP-UP MENU** button to access the Pop-up Menu. Press the **MENU** button to access the Top Menu.
3. Navigate in the menu using the **ARROW** buttons, then press the **OK** button to make a selection.
4. Some menus make use of the **COLOR** buttons. You can select menu functions by pressing the corresponding **COLOR** button on the remote control.

DVD Menu Navigation



1. Some DVDs contain title menu or chapter menu functions.
2. During playback, press the **MENU** button to return to the disc title menu. Press the **POP-UP MENU** button to display the chapter menu. Depending on the disc, one or both menus may not exist.
3. Navigate the menu using the **ARROW** buttons, and then press the **OK** button to make the selection.
4. Press the **RETURN** button to return to the previous menu. The return location varies by disc.

On-Screen Display



1. During the playback of a DVD or Blu-ray Disc, press the **INFO** button on the remote control to show its media information and HDMI output format. For CDs and SACDs, the status information is shown automatically.
2. Press and hold the **INFO** button for 3 seconds to show more detailed Media Playback, Media Information, and HDMI Output information.
3. Press the **INFO** button again to hide the on-screen display.

In addition to the playback time, the on-screen display may also contain the following information about the content currently playing :

- Playback status: an icon showing play, pause, and fast forward/reverse status.
- Bitrate meter: an indication of the bitrate of the audio and video stream.
- Current and total chapter numbers of the current title. (DVD and Blu-ray Discs)
- Current and total tracks. (CDs and SACDs)
- Video format information : resolution, frame rate, HDR format, color space, codec, original aspect ratio.
- Subtitle information : current and total available number of subtitle tracks and language.
- Audio information : current and total available number of audio tracks, language, format, and channels.
- HDMI output information : resolution, frame rate, HDR format, color space, deep color, aspect ratio, audio format, HDMI Audio Out, HDMI Mode, and HDMI2 State.

Volume Control



1. On the UBR-X200, the volume control only affects the analogue audio output. It does not apply to digital audio output (HDMI, Coaxial and Optical) either in raw bitstream format or in PCM format.
2. The **VOL +/-** buttons on the player's remote control are provided as an alternative way of controlling the audio volume. It is recommended that you use this control to make the audio volume from the player the same as from other sources, such as TV programs or a VCR.
 - Press the **VOL -** button to decrease the volume.
 - Press the **VOL +** button to increase the volume.

Mute



1. Press the **MUTE** button on the remote control during content playback to turn off audio output. The TV screen will display a mute icon.
2. Press the **MUTE** button again to resume audio output.

NOTE

- When there is no audio output, check for the presence of the "Mute" icon on the TV screen. You can also press the **MUTE** button to check the mute mode status.

Audio Language



1. To select the audio language, press the **AUDIO** button on the remote control during playback.
2. Repeatedly press the **AUDIO** button or use the **UP/DOWN ARROW** buttons to choose from all available languages.

Subtitle Selection



1. When playing a DVD, Blu-ray Disc or other video programs recorded with subtitles, press the **SUBTITLE** button on the remote control to select the desired subtitle.
2. Repeatedly press the **SUBTITLE** button or use the **UP/DOWN ARROW** buttons to choose from all available subtitles.
3. To turn off subtitles, select **Off** from the list.

BD-Live



Some Blu-ray Disc titles are released with the BD-Live feature. BD-Live offers extra downloadable content and additional online interactive programs. BD-Live content varies by disc and studio, and may include additional subtitles, commentaries, preview trailers, games, and online chat. A Broadband internet connection is required to enjoy BD-Live content.

Depending on how the studios organize their BD-Live content, some Blu-ray Discs may start downloading BD-Live content when playback starts, have BD-Live selection on the main menu, show a prompt asking whether you would like to start downloading, or ask you to sign up for a membership or account. Please follow the instructions that come with the disc to enjoy BD-Live contents.

Your Internet connection speed and the capacity of the BD-Live content servers can all affect how fast BD-Live content is downloaded. If you encounter slow downloading or intermittent playback, please play the disc without accessing the BD-Live features, or try again at a different time.

When you use the BD-Live feature, the player or disc ID and your IP (Internet Protocol) address may be sent to the content provider via the Internet. Generally, no personally identifiable information is sent. However technologies exist to match your IP address to a certain geographical area or service provider. Your Internet service provider also has the knowledge of who is using a particular IP address. If the BD-Live content provider requires you to log in using a membership or account, the content provider will have access to your membership or account information. Check with your Internet service provider and the BD-Live content providers for their privacy policy.

You can choose to restrict BD-Live Network Access in the **Setup Menu** (see details on page 37).

ADVANCED OPERATIONS

Zoom Control

This feature zooms in / out of the displayed frame and also changes the aspect ratio (image width vs. height).

To change the zoom level, press the **ZOOM** button on the remote control. Each press of the **ZOOM** button will switch the zoom level in sequence.

NOTE

- Some early DVD titles (released from 1997 until early 2000's) use a 4:3 non-anamorphic widescreen aspect ratio. When played on a 16:9 display, the content is shown in a small window with black borders on all four sides. The top and bottom borders are encoded into the video. The left and right borders are added by the player to maintain the correct aspect ratio. For these types of discs, the Full Screen zoom mode can be used to eliminate the borders.
- The ZOOM feature may not be available when certain DVD or Blu-ray Discs are played if the disc's author has chosen to disable ZOOM.

Subtitle Shift



For users of 2.35:1 "Constant Image Height" video projection system, subtitles may be cut off because they are positioned outside the active video area.

The Subtitle Shift feature can be used to shift subtitles up or down so they can be displayed within the active video area.

To shift the display position of subtitles, please follow these steps :

1. When playing a DVD, Blu-ray Disc or other video programs recorded with subtitles, select the desired subtitle from the disc menu or by using the remote.
2. Press and hold the **SUBTITLE** button on the remote control until the **Shift Subtitle Position** prompt appears on the screen.
3. Wait until subtitle text is shown on the screen, and then use the **UP/DOWN ARROW** buttons to move the subtitle text to the desired position.
4. Press the **OK** button to set the subtitle display position.

Repeat Playback



To repeat a certain chapter, title, track or disc, press the **REPEAT** button on the remote control.

Each press of the **REPEAT** button changes the repeat mode using the following sequence :

DVD and DVD-Audio :



Blu-ray :



CD and SACD :



NOTE

- Some Blu-ray discs may not accept the “Repeat” function.

Repeat a Selected Section



1. During normal playback, press the **AB REPLAY** button on the remote at the desired beginning point (Point A) for the repeat play. The TV screen displays “A”.
2. When playback reaches the desired ending point (Point B) for the repeat play, press the **AB REPLAY** button again. The player now repeatedly plays back the specified section (A-B). The TV screen displays “A-B”.
3. Press the **AB REPLAY** button for the third time to resume normal playback.

NOTE

- May not be available for all disc formats or content.

Shuffle and Random Playback



When playing a CD or SACD (UBR-X200), press the **OPTION** button on the remote control and select **Mode** to activate the Shuffle and Random modes.

In normal playback mode, each track is played back in sequential order. As the name implies, the Random playback mode randomly selects a track to play. The Shuffle mode also plays back the tracks in random order, but it ensures that each track is played only once.

Selecting the **Shuffle** or **Random** mode cancels any **Repeat** mode you may be using. Similarly, selecting a **Repeat** mode cancels any **Shuffle** or **Random** mode.

Playback by Chapter or Track Number

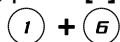


During the playback of a disc, you can use the **NUMBER** buttons on the remote control to directly jump to a specified chapter or track number. For example

- To select the seventh track, press the **[7]** button :



- To select the 16th track, press **[1]** followed by **[6]** in quick succession :



NOTE

- Some DVD-Audio and Blu-ray discs may not support this feature.

Memory and Automatic Resume



- The player automatically saves the current position when playback is interrupted. Operations such as **STOP**, **OPEN**, and **POWER** cause the player to save the current playing position.
- This position is saved even after turning off the unit or changing the disc.
- The next time a disc with a saved playing position is inserted, the player will resume playback from that point. If you wish to cancel the automatic resume and start playback from the beginning, you must press the **STOP** button when prompted.
- The player can save the playback position for up to 5 discs. When the position from the sixth disc is saved, the oldest saved position is replaced.

NOTE

- Some Blu-ray discs may not support this feature.

Pure Audio Mode



The **Pure Audio** mode reduces any potential interference between the video and audio signals by turning off the player's video processing and output.

- Press the **PURE AUDIO** button on the remote control to turn off video and enter **Pure Audio** mode. Video output will cease, the power light will dim and the front panel displays will turn off.
- Press the **PURE AUDIO** button again to resume video and cancel **Pure Audio** mode.

NOTE

- Pure Audio** mode is automatically cancelled when the unit is switched off or when playback is stopped.
- Because HDMI carries audio together with video, the HDMI video signal cannot be completely turned off. A black screen is transmitted instead to minimise any potential interference.

MEDIA FILES PLAYBACK

In addition to playing standard disc-based formats such as Blu-ray, DVD, CD and SACD (UBR-X200), the UBR-X100 / X200 players can play digital media files. You can enjoy digital music, movies and photos stored on a data disc (recordable CD, DVD or Blu-ray), an external USB drive, or via network storage. **Due to the variation of media, encoding software and techniques used, compatibility cannot be guaranteed for all user-created or downloaded content.**

Playback from a USB Flash Drive

The UBR-X100 / X200 players are equipped with two USB ports : one USB 3.0 port in the back and one USB 2.0 port in the front. You may use any of the available USB ports to plug in USB drive.

The USB ports are rated to provide a maximum of 5V, 1000mA power to the USB drive. It is sufficient for USB thumb drives and flash memory card readers, but may not be sufficient for USB hard disks. It is recommended to check with your drive manufacturer for power requirements, or use an external power supply.

NOTE

- These units support “USB Mass Storage Class Bulk-Only Transport” 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.
- Supported USB drives can be formatted with the FAT (File Allocation Table), FAT32, exFAT or NTFS (New Technology File System) file systems.
- 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 minimise the risk of data corruption, it is recommended that you only unplug the USB device when playback is completely stopped.

Playback from a Local Network

The UBR-X100 / X200 players can remotely play back music, photo, and video files stored on computers or NAS (Network Attached Storage) devices that are connected to the same local network. The computer or NAS need to run server software that supports media sharing protocols such as DLNA or SMB/CIFS. To play media files shared on your local network, press the **HOME** button on the remote to bring the **Home Menu**, select the **Video**, **Music** or **Photo** icon and press the **OK** button to show the list of available servers.

The UBR-X100 / X200 players can play media files on the home network in one of the following two ways :

- As a **digital media player** (DMP) : the player can actively search, access and pull content from local media servers which supports DLNA.
- As a SMB/CIFS client : the player can directly access files shared through SMB/CIFS servers over the network (**Beta feature under development**), as if accessing an external USB hard

drive. Most computers, especially those installed with Windows, already support SMB clients. Please refer to respective OS instructions to set up the SMB/CIFS shared file/folder.

NOTE

- NAS is a networked appliance that provides file-based data storage services to other devices on the network. Commercial products are available on the market.
- SMB (Server Message Block) or CIFS (Common Internet File System) is mostly known as Microsoft Windows Network. It does not require an extra media server or perform any media format transcoding, which reduces the processing load and keeps the original content quality.

HOME Menu

The UBR-X100 / X200 players present a **Home Menu** to assist you in navigating and playing media files from an inserted optical disc, USB flash drive or external hard drive. Basically, the **Home Menu** is the starting point for accessing media files.

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

- **Disc** : enables the player to start playback of an inserted optical disc.
- **Video, Music and Photos** : allow you to access corresponding type of media files from a connected USB drive, an inserted data disc or a local network.
- **Setup** : brings the player's **Setup Menu**, just like pressing the **SETUP** button on the remote.

Playing Music Files

To play digital 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 :

- Press the **ARROW** buttons on the remote control to move the cursor and select music files.
- When a music file is highlighted by the cursor, press the **OK** or **PLAY** button to start playback.

When a music file starts playing, the **Now Playing** screen will appear after a few seconds. This screen provides the following information :

- Shows playback status : Play, Stop, Pause, Track and Time.
- Display and change playback mode : Shuffle/Random, Repeat One/All.
- Music information : Displays information like album, artist, title, type or channel tags embedded in the music file.

Playing Video Files

To play movie files stored on an optical disc or USB drive, select **Movies** 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 movie files. The player will take a moment to read the media and list the folders and movie files.

Once a movie file starts playing, the normal playback control functions are available :

- To stop the movie and return to the file browser, press the **STOP** button.
- Press the **OPTION** button to access other features.

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 :

- Press the **ARROW** buttons to move the cursor and select photo file.
- When a photo file is highlighted by the cursor, press the **OK** or **PLAY** button to play back the photos as full screen slideshow.

The following operations are available during the photo slideshow :

- Normal playback controls : **PLAY, STOP, PAUSE, and PREV/NEXT**
- Adjust slideshow speed : **REV** and **FWD**
- Zoom : **ZOOM**. Once zoomed in, the **ARROW** buttons can be used to pan around the photo.
- Reflect (flips the photo horizontally to make it upside-down) : **UP ARROW**
- Mirror (flips the photo vertically to make it a mirror image) : **DOWN ARROW**
- Rotate left (counterclockwise) : **LEFT ARROW**
- Rotate right (clockwise) : **RIGHT ARROW**
- Repeat : **REPEAT**
- Press the **OPTION** button to access other features.

SETUP MENU OPTIONS

The Setup Menu of the UBR-X100 / X200 players presents many setup and configuration options. For most users, the default configuration will be sufficient and you will not require any changes to the settings. However, if you need to configure the player to perfectly match your home theatre setup and viewing preferences, please refer to the following sections for details about each configuration option.

Using the Setup Menu System

Like many other sections listed in this guide, the player's **Setup Menu** allows you to make adjustments to match your specific audio/video configuration. When performing menu adjustments, we will use the following terminology to indicate the location of the desired function :

Setup Menu Section> Menu Item >Selection

Setup Menu Section is the uppermost **Setup Menu** level. Within the UBR-X100 / X200 players, there are seven **Setup Menu** sections listed in the left column of the **Setup Menu** : Display, Audio, HDMI, Network, Language, Playback and Options.

Menu Item is the parameter to be adjusted which appears in the center column of the **Setup Menu**. Once you enter a Setup Menu Section, the list of Menu Items and their current value are displayed in a box.

Selection is the actual numeric or descriptive element that represents the change being made to the selected parameter. It is the item located to the right of its corresponding **Menu Item**.

A Scroll Mark appears at the top or bottom of the menu when there are more Menu Items or Selections than what can fit in screen. You may use the **UP and DOWN ARROW** buttons to scroll the display in order to access additional items.

In the following pages of this guide, when you are asked for example to define the **Last Memory** parameter in the **Playback** Menu, we will show you the path as follows: **Playback> Last Memory> Off**.

NOTE

- It is possible that some setup items may be grayed-out and inaccessible. This may be caused by several reasons: playback is ongoing; a disc is in the tray; or a prerequisite setup item excludes some options. Please stop playback and eject the disc before trying to change these setup items. If you still cannot access the setup item, please check for configuration conflicts.

1. The **Setup Menu** can be accessed by pressing the **SETUP** button on the remote control, or by selecting the "**Setup**" icon from the Home Menu screen. The following steps are an example of setting **Playback>Last Memory to Off**.
2. Press the **UP/DOWN ARROW** buttons to select the section. Press the **OK** button or the **RIGHT ARROW** button to enter the selected section.
3. Press the **UP/DOWN ARROW** buttons to select the setup item to be changed, and press the **OK** button to change the setting.

SETUP MENU OPTIONS

4. When the scroll icon is shown at the top or bottom of the **Setup Menu**, it indicates that there are more menu items that can be accessed by scrolling with the **UP/DOWN ARROW** buttons.
5. For example, in the **Playback** section, you may use the **UP/DOWN ARROW** buttons to select the **Last Memory** setup item, and press the **OK** button to change the **Last Memory** setting.
6. To select a value from the list of available settings, press the **UP/DOWN ARROW** buttons and then press the **OK** button to confirm.

For example, to select **Off** for **Last Memory**, use the **UP/DOWN ARROW** buttons to highlight the **Off** selection and press the **OK** button.

7. To exit the **Setup Menu** at any time, press the **SETUP** button on the remote control.

Settings are permanently saved when the player is turned off using either the front panel power button or the remote control. If the AC power is interrupted before the player enters standby, the settings will not be saved. To ensure that the settings are saved, please turn off the player and turn it back on after you make major changes to the **Setup Menu** options.

Display

The **Display** section of the **Setup Menu** allows you to configure video output options.

1. **TV Screen**: Sets the aspect ratio of the player's output image.
 - **16:9 Full** – 16:9 content will be displayed in its native aspect ratio, and 4:3 contents will be stretched horizontally.
 - **16:9 Normal** – 16:9 content will be displayed in its native aspect ratio, and 4:3 content will be displayed with black borders on both sides in order to maintain the original 4:3 aspect ratio.
 - **4:3 Pan&Scan** – 16:9 and 4:3 contents are horizontally stretched to fill the screen.
 - **4:3 Letterbox** – 16:9 and 4:3 contents are vertically stretched to fill the screen.

2. **Resolution** : Allows you to choose the output resolution that best matches your television's native resolution.
 - **Auto** – Automatically sets the optimal output resolution.
 - **480p/576p, 720p, 1080i, 1080p, 1080p24, 4K, 4K/24p** – The video signal will be set according to those specific output resolutions.
 - **Source Direct** – The output resolution is the original resolution of the source content.

NOTE

- An error message or a black screen may appear if your TV does not accept the selected resolution. Then press the **RESOLUTION** button on the remote control until "**AUTO**" appears on the player's front panel display. Then press the **OK** button or wait a few seconds to confirm the selection. The player will automatically determine the output resolution compatible with your TV.

3. **HDR** : Allows you to choose the output mode for High-Dynamic Range content.
 - **Auto** – HDR signal is sent if it is supported by both the content and the display. The player automatically detects HDR content if the TV or projector is HDR compatible, and if these two criteria are met, the player will be able to output the HDR video signal from the main HDMI output (Main). Otherwise, only SDR video signal will be sent.
 - **On** – HDR signal is sent if it is supported by both the content and the display.
 - **Off** – HDR signal is always cut off. HDR content will be converted to SDR.

4. Dolby Vision : Setting the Dolby Vision Mode.

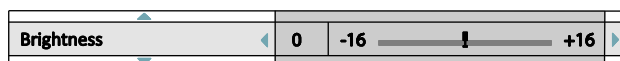
- **Auto** (par défaut) – Dolby Vision signal is sent if it is supported by both the content and the display. The player automatically detects Dolby Vision content if the TV is Dolby Vision compatible, and if these two criteria are met, the player will be able to output the Dolby Vision video signal from the Main HDMI output (Main). Otherwise, only SDR video signal will be sent.
- **Forced** – If the video content is Dolby Vision compatible, the player will always output the video signal with Dolby Vision activated, regardless of the Dolby Vision compatibility of your display ; which could cause picture anomalies if the connected display is not Dolby Vision compatible.
- **Off** – Dolby Vision signal is always cut off. Dolby Vision content will be converted to SDR.

Video parameter

Video Parameter allows you to adjust many control parameters in order to achieve optimum picture quality. To enter the **Video Parameter** menu, press the **SETUP** button on the remote control during playback.

To change a Video Parameter, use the **UP/DOWN** buttons to highlight the parameter, and use the **LEFT/RIGHT** buttons to change its value.

To simplify the **Video parameter** control settings, the Video parameter menu will be collapsed to show only the active setting when you press the **LEFT / RIGHT** buttons (except **Memory mode**, which switches between modes 1, 2 and 3, and displays all the other parameters with their memorized values). The collapsed menu is displayed near the bottom of the screen.



You can continue adjusting the current parameter by pressing the **LEFT/RIGHT** buttons. To select another parameter, press the **UP/DOWN** buttons. Press the **OK** button to return to the **Video parameter** menu.

To exit the **Video parameter** menu and return to the current playing disc, press the **RETURN** button.

1. **Memory** : The UBR-X100 / X200 players can store up to three custom modes. Use **LEFT / RIGHT** buttons to change mode and all parameters will automatically be adjusted to their saved values. The modified parameter values will be automatically saved when you exit the **Video parameter** menu or when switching to another memory mode.
2. **TV Types** : Allows you to select display types (LCD, OLED, Video Projector, Référence).
3. **Brightness** : Allows you to adjust the brightness (black level) of the video output.
4. **Contrast** : Allows you to adjust the contrast (white level) of the video output.

NOTE

- Proper brightness and contrast settings are necessary for a quality video output. If you do not have the correct black and white levels, your images can appear washed out or can lose detail in shadows when watching darker scenes. Televisions have brightness (black level) and contrast (white level) controls; however, it may require a combination of tweaking both the player and your television to get the optimal result. First adjust the television's picture controls for the best possible picture. Once done, try changing the player's settings to further refine the picture to the optimal result.
5. **Hue** : Allows you to adjust the hue (tint) of the video output.
 6. **Chroma Level** : Allows you to adjust the saturation (color intensity level) of the video output.
 7. **Sharpness** : Allows you to set the sharpness of video output. Sharpness is a video processing function that can control the image sharpness but at the same time may cause unwanted artifacts. The sharpness level can be set between 0 and +16. The default is level 0. The higher the level, the sharper the video details are. However, too high a sharpness level may cause white lines or halo-like effects to appear around objects.
 8. **DNR** : Allows you to select whether the player will apply video noise reduction processing. The default is level 0, which turns off noise reduction. When this level is increased, the player adjusts the picture quality by applying video noise reduction. The higher the level, the more aggressively noise reduction functions are applied.

Remember that excessive noise reduction may cause a loss of detail. We recommend using the noise reduction function only when you encounter poorly encoded or compressed video that has apparent noise artifacts.

9. **HDR-SDR Adj.** : Allows you to adjust the target luminance for better HDR to SDR conversion. The luminance content higher than the target luminance will be mapped into the luminance range lower than the target luminance.

Select the Best Output Resolution

One of the major advantages of the UBR-X100 / X200 players is their ability to play Ultra High-Definition Blu-ray video (UHD) and also up-convert high-definition video (HD) and standard definition video (SD) to Ultra High-Definition. The players offer several standard, HD and UHD video output resolutions. For best results, it is important to select an output resolution that best matches your TV or display.

The goal is to select the native resolution of your TV or to get as close to it as possible. Native resolution is the number of pixels (dots) that the diffuser matrix can actually display, whether it is a plasma or OLED panel, an LCD or DLP™ matrix, or any other display technology. TVs generally accept signals at both higher and lower resolution than their native resolution. In this case, the electronics of the TV convert the input signal to match the native resolution. Unfortunately, in most cases this process results in very poor image quality. So if you set the output resolution of the UBR-X100 / X200 closer to your TV's native resolution, you will be able to get an exceptional picture. Most TVs and projectors can communicate their native resolutions to the player via HDMI. Setting the **Resolution to Auto** is generally the best choice for users. However, in some cases, TVs or projectors may not present their native resolutions correctly, or decide that a certain resolution is more appropriate.

For most new displays on the market, the best output resolution will be either UHD or 1080p. A few early model "1080p" displays did not accept a 1080p signal. For these displays, the best output resolution is 1080i. For small screen digital TVs this will likely be 720p. For even earlier CRT tube or rear projection TVs this will likely be 1080i. For EDTV displays (very rare if they have HDMI or DVI) this will be 480p (NTSC) or 576p (PAL). These are general recommendations that work for most users, but there can be exceptions. Advanced users may want to try all supported resolutions and choose the one that provides the best result visually.

UBR-X100 / X200 players support a special **Source Direct** mode through their HDMI outputs. This resolution is recommended for use with external video processors or high-end TVs. In **Source Direct** mode, the players work as a "transport". They decode video from the discs and then send the raw video signal in its native resolution and format, without extra processing, to the external video processor or TV. The actual output resolution varies by content :

Content	Source Direct Output Resolution
NTSC DVD	480i
PAL DVD	576i
Most Blu-ray Movies (film-source)	Ultra HD (4K) 23.976Hz or Ultra HD (4K) 24Hz 1080p 23.976Hz or 1080p 24Hz
Most Blu-ray TV shows or Concerts (video-source)	1080i
SACD and DVD-Audio	1080p

You can switch between Auto mode and one of the preset resolutions by pressing the **RESOLUTION** button on the remote control.

Audio

The **Audio** section of the **Setup Menu** allows you to configure audio output options.

1. **Digital Out** : Sets the output format for S/PDIF digital coaxial and optical connections for use with a Dolby Digital and DTS compatible home theater amplifier.
 - **Bitstream** – Forces audio in compressed bitstream format for decoding through the amplifier, if the amplifier can decode Dolby Digital and / or DTS content.
 - **PCM** – When this option is selected, compressed audio bitstreams will be decoded by the player. This setting is recommended when the S/PDIF output is connected directly to a home theater amplifier without advanced audio decoding functions.
 - **Off** – No digital audio output via S/PDIF.
2. **Down Mix** : Down mix is the process of converting multi-channel audio to a smaller number of channels. For example, a 7.1 source can be converted to stereo. Down mix allows you to match the audio output of the player with the number of channels available in your home theater installation. To change the down mix setting, press the OK button when the cursor is on the Down Mix option. The following modes are available:
 - **LT/RT** – Left Total/Right Total. The center and surround channels are mixed into the two front channels according to the LT/RT matrix. A Dolby Pro Logic receiver will decode the two-channel audio into surround audio.
 - **Stéréo** – This mode down mixes multi-channel audio to 2-channel stereo output. For original stereo content the output will not change. For original multi-channel content the surround and center channels will be mixed with the left and right front channels. This is recommended for use with TV sets or stereo receiver/amplifiers.
3. **Max Sampling Frequency** : Allows you to set the maximum output sampling rate for digital S/PDIF coaxial and optical connections for use with a Dolby Digital and DTS compatible home theater amplifier.
 - **48k LPCM** – Forces down-mixed 2-channel in PCM digital audio format, and sets the maximum sample rate to 48kHz. This is supported by most receivers/amplifiers.
 - **96k LPCM** – Forces down-mixed 2-channel in PCM digital audio format and sets the maximum sample rate to 96kHz. It can result in better audio quality but ensure the receiver/amplifier can support it.
 - **192k LPCM** – Forces down-mixed 2-channel in PCM digital audio format and sets the maximum sample rate to 192kHz. It can result in better audio quality but ensure the receiver/amplifier can support it.
4. **DRC** : Allows you to set the Dynamic Range Compression (DRC). DRC can smooth out the sonic peaks and valleys common with wide-range digital audio. Enabling DRC may make low level audio more audible during low-level listening. Turning off DRC restores the sonic energy present in the original recording.
 - **Auto** – Plays at the dynamic range specified by the disc. This option applies to certain Blu-ray Discs only, which have DRC instructions encoded in the Dolby TrueHD audio tracks.
 - **On** – Turn on DRC for all Dolby and DTS audio formats. This option applies to all DVD and Blu-ray Discs.
 - **Off** – Turn off DRC.

NOTE

- Dynamic Range Compression is applied to the analogue audio output and digital audio outputs (HDMI, Coaxial and Optical) when the audio format is set to PCM.

5. **Speaker Setting** : Select the number of audio output channels. The options are as follows :

- 2.x – This mode converts multi-channel audio to 2-channel stereo. A Dolby Pro Logic amplifier will decode the audio signal in surround stereo.
- 3.x – This mode enables 3.1-channel decoded audio output. The number of actual output channels depends on the disc.
- 4.x – This mode enables 4.1-channel decoded audio output. The number of actual output channels depends on the disc.
- 5.1Ch – This mode enables 5.1ch decoded audio output. The number of actual output channels depends on the disc. If the source content has more channels, the surround back channels will be mixed into the surround channels.
- 7.1Ch – This mode enables 7.1ch decoded audio output. The number of actual output channels depends on the disc. For 6.1ch contents, the left and right surround back speakers will both output the same surround back audio channel.

NOTE

- **Dynamic Range Control (DRC)** also affect the HDMI, coaxial, and optical outputs.
- **Speaker Setting** mainly applies to the multi-channel analogue audio outputs. However, when **S/PDIF Output** is set to **PCM** in the **Setup Menu**, its signal becomes a down-mixed stereo version of the multi-channel signal that is sent to the multi-channel analogue audio outputs. As a result, the PCM signal from the coaxial and optical output is affected by the settings in **Speaker Setting**.
- HDMI is unaffected by the settings in **Speaker Setting**, and the coaxial and optical outputs are also unaffected by these settings when **S/PDIF Output** is set to **Bitstream**.

Audio Signal Reference Chart

Blu-ray Discs may contain many types of audio signal formats, some of which are high resolution types such as Dolby TrueHD and DTS-HD Master Audio. Blu-ray Discs also have many optional audio components such as the Secondary Audio Program and menu clicking sound. The player's **Audio** menu allows you to configure the audio output to meet your specific preference. The following chart provides a reference to what type of audio signal can be expected.

When **Secondary Audio** is set to **Off** :

Setting Source Format	HDMI Output		Coaxial / Optical Outputs		Analog Multi- Channel Output
	Bitstream	PCM	Bitstream	PCM	
PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch	2ch
PCM 5.1ch	PCM 5.1ch	PCM 5.1ch	DTS 5.1ch	PCM 2ch	5.1ch
PCM 7.1ch	PCM 7.1ch	PCM 7.1ch	DTS 5.1ch	PCM 2ch	7.1ch
Dolby Digital	Dolby Digital	PCM 5.1ch	Dolby Digital	PCM 2ch	5.1ch
Dolby Digital Plus	Dolby Digital Plus	PCM up to 7.1ch	Dolby Digital	PCM 2ch	Up to 7.1ch
Dolby TrueHD	Dolby TrueHD	PCM up to 7.1ch	Dolby Digital	PCM 2ch	Up to 7.1ch
DTS	DTS	PCM up to 7.1ch	DTS	PCM 2ch	Up to 7.1ch
DTS-HD High Resolution	DTS-HD High Resolution	PCM up to 7.1ch	DTS (core)	PCM 2ch	Up to 7.1ch
DTS-HD Master Audio	DTS-HD Master Audio	PCM up to 7.1ch	DTS (core)	PCM 2ch	Up to 7.1ch

When **Secondary Audio** is set to **On** and the players encounter a disc with a secondary audio track or menu sounds :

Setting Source Format	HDMI Output		Coaxial / Optical Outputs		Analog Multi- Channel Output
	Bitstream	PCM	Bitstream	PCM	
PCM 2ch	PCM 2ch	PCM 2ch	LPCM 2ch	PCM 2ch	2ch
PCM 5.1ch	PCM 5.1ch	PCM 5.1ch	DTS 5.1ch	PCM 2ch	5.1ch
PCM 7.1ch	PCM 7.1ch	PCM 7.1ch	DTS 5.1ch	PCM 2ch	7.1ch
Dolby Digital	Dolby Digital*	PCM up to 5.1ch	Dolby Digital*	PCM 2ch	5.1ch
Dolby Digital Plus	Dolby Digital*	PCM up to 7.1ch	Dolby Digital*	PCM 2ch	Up to 7.1ch
Dolby TrueHD	Dolby Digital*	PCM up to 7.1ch	Dolby Digital*	PCM 2ch	Up to 7.1ch
DTS	DTS*	PCM up to 7.1ch	DTS*	PCM 2ch	Up to 7.1ch
DTS-HD High Resolution	DTS*	PCM up to 7.1ch	DTS*	PCM 2ch	Up to 7.1ch
DTS-HD Master Audio	DTS*	PCM up to 7.1ch	DTS*	PCM 2ch	Up to 7.1ch

Note : All audio output signals are mixed with primary, second audio and menu sounds. "Dolby Digital*" and "DTS*" denote mixed audio re-encoded into the original bitstream audio format.

Recommended Audio Format Options

Depending on your specific audio/video connection method, the **Audio** options of the UBR-X100 / X200 may need to be adjusted to match your configuration. Refer to the video and audio connection methods described previously in this guide and the following audio setup guidelines.

Audio Connection Directly to TV

If the player is connected directly to the TV through HDMI, it is recommended that you use the following audio format options :

- **Secondary Audio :** **On**
- **HDMI Audio Format :** **PCM**
- **S/PDIF Output :** (any – not used)

Multi-Channel Digital Audio to Receiver through HDMI

If the player is connected to an A/V receiver or processor with HDMI inputs, you can send all current audio formats to your receiver in pure digital form. To get the best possible audio via HDMI, you may need to set the following options on the player's **HDMI** menu :

- If your receiver supports HDMI v1.3 with decoding capability for high resolution lossless audio formats such as Dolby TrueHD and DTS-HD Master Audio, please use the following audio output setup options :

- **Secondary Audio :** **Off** (or **On** if you need secondary audio)
- **HDMI Audio Format :** **Bitstream**
- **S/PDIF Output :** (any – not used)

- If your receiver supports HDMI v1.1/1.2 Multi-Channel PCM audio, but not high resolution lossless audio formats such as Dolby TrueHD and DTS-HD Master Audio, please use the following audio output setup options :

- **Secondary Audio :** **Off** (or **On** if you need secondary audio)
- **HDMI Audio Format :** **PCM**
- **S/PDIF Output :** (any – not used)

Multi-Channel Analogue Audio to Receiver (UBR-X200)

If the player is connected to an A/V receiver through the 7.1ch or 5.1ch analogue audio jacks using 8 or 6 RCA cables, you can play all supported audio formats and listen to them with your A/V receiver and surround sound systems. The following audio output setup options are recommended :

- **Secondary Audio :** **Off** (or **On** if you need secondary audio)
- **HDMI Audio Format :** **Off**
- **S/PDIF Output :** (any – not used)

Also set the **Speaker Configuration** in the **Audio** menu :

- Set to **7.1Ch** or **5.1Ch**.
- Enable or select the multi-channel analogue inputs on your receiver.

Stereo Analogue Audio to Receiver (UBR-X200)

If you primarily listen to stereo content or if your receiver only offers stereo audio connections, please use the analogue RCA-style cables to connect the FL (Front Left) and FR (Front Right) terminals of the player to your receiver. The following audio output options are recommended :

- **Secondary Audio :** **Off** (or On if you need secondary audio)
- **HDMI Audio Format :** **Off**
- **S/PDIF Output :** (any – set to **192k LPCM** may help to get the best analogue audio quality)

Coaxial or Optical Digital Audio to Receiver

If the player is connected to an A/V receiver with Coaxial/Optical inputs, and the A/V receiver supports Dolby Digital and DTS decoding, the following audio output setup options are recommended :

- **Secondary Audio :** **Off** (or On if you need secondary audio)
- **HDMI Audio Format :** **Off**
- **S/PDIF Output :** **Bitstream**

HDMI

The **HDMI** section of the **Setup Menu** allows you to configure video and audio HDMI options.

1. **HDMI Mode** : Choix de la configuration audio/vidéo du flux HDMI :
 - **Single** : audio and video streams are sent through single HDMI.
 - **Separate** : audio and video streams are sent separately through two HDMI.

2. **HDMI Color Space** : Allows you to select the color space for the HDMI video output.
 - **RGB (16 to 235)** – The HDMI output uses RGB color space and normal signal range suitable for video displays.
 - **RGB (0 to 255)** – The HDMI output uses RGB color space and expands the signal range. The expanded signal range is suitable for personal computer (PC) displays. Some TVs are designed to be used as PC monitor, and expect signal in expanded RGB range when the DVI input is selected. For these displays if the video signal uses the normal RGB range, the black-white contrast will be reduced. You can set the player to use the RGB (0 to 255) output and restore proper contrast.
 - **YCbCr 4:4:4** – The HDMI output uses YCbCr 4:4:4 color space.
 - **YCbCr 4:2:2** – The HDMI output uses YCbCr 4:2:2 color space. Generally this is the color space that is closest to the color space encoded on the discs. (All discs are encoded in YCbCr 4:2:0 color space, and the video decoder decodes it into YCbCr 4:2:2.)
 - **YCbCr 4:2:0** – The HDMI output uses YCbCr 4:2:0 color space. This is the color space that is the same as the color space encoded on the discs.

3. **HDMI Deep Color** : Allows you to select the color depth mode for the HDMI video output. For displays that support increased color depth, you should see smoother color transitions and better gradients.
 - **Auto** – The player automatically determines the color depth mode based on the capabilities of the display device.
 - **12-bit** – Always uses the 12-bit color depth mode.
 - **10-bit** – Always uses the 10-bit color depth mode.
 - **Off** – Always uses the 8-bit color depth mode.

NOTE

- To watch a UHD movie with HDR-10 color, you need to select Auto or 10-bit color depth to enable HDR output.
- The 12-bit and 10-bit color depth mode may not be supported by all TVs. Using the 12-bit or 10-bit color depth mode when connected to a TV that does not support it may result in no video.

4. HDMI Audio Out : Allows you to select the digital audio output format from the HDMI port. The options are the following :

- **Bitstream** – Digital audio output via HDMI will be in bitstream format. This option is recommended when connecting the HDMI output to an A/V receiver or processor that supports advanced audio decoding, such as Dolby Atmos, Dolby TrueHD and DTS:X or DTS-HD Master Audio.
- **PCM** – When this option is selected, compressed audio bit streams will be decoded by the player. This setting is recommended when connecting the HDMI output directly to a TV or to a receiver without advanced audio decoding capabilities.
- **Off** – No digital audio output via HDMI.

5. CEC : Allows you to set the HDMI Consumer Electronics Control (CEC) mode. CEC is an optional HDMI feature that enables convenient remote control and automatic setup of consumer electronics over the HDMI connection. The remote control function allows you to use a single remote handset to operate multiple devices connected via HDMI. For example, you may use the TV remote to control playback of the Blu-ray Disc player. The automatic setup function can automatically turn on the TV and change to the proper input when you start playing a disc in the Blu-ray Disc player. It can also turn off the player automatically when you turn off the TV. The implementation and compatibility of this feature varies by device manufacturer. Each may only implement part of the features or add their own proprietary functions. The manufacturer-specific implementation of the HDMI CEC function is often given a proprietary name of "...Link" or "...Sync". The UBR-X100 / X200 players provide two HDMI CEC function modes for its HDMI Output (Main) port :

- **Off** – HDMI CEC feature is turned off on HDMI output terminal. The player will not respond to HDMI CEC commands from other devices, nor will it setup other devices automatically.
- **On** – HDMI CEC is enabled on HDMI output. Use this mode if your other devices are compatible with the player.

6. HDMI 3D : Adjusts the playback settings for better 3D visual quality.

- **Auto** – Outputs 3D if supported both by both the disc content and the display. The player automatically checks for the existence of 3D content on the disc and the 3D compatibility of the TV or projector. If both criteria are met, the player sends 3D video from its HDMI output terminals ; otherwise, only 2D video is sent out. You may need to wear 3D glasses that come with your TV in order to view 3D movies.
- **Off**– Always output 2D video format, even when 3D video exists on the disc. This guarantees the video quality if your TV is not 3D compatible, or if some necessary components (such as the 3D glasses) are missing.

Network

The **Network** section of the **Setup Menu** system allows you to configure the player's network connection, test the connection, and enable or disable BD-Live access.

1. **IP Address Setting** : Determines how the player obtains its IP address.

- **Auto Set Ip Address (DHCP)** – The player automatically obtains its IP address information using DHCP (Dynamic Host Configuration Protocol). This is the default setting. In most cases, automatic IP configuration should be used.
- **Manuel** – 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. For more information on how to manually configure the Internet connection and what values to use, please consult your broadband router/modem instruction manuals or call your Internet service provider.
 - **IP Address**: The Internet Protocol address of the player. When **IP Address Setting** is set to **Auto (DHCP)**, the value displayed here is obtained using DHCP and cannot be changed.
 - **Subnet Mask** : Each IP address has an associated subnet mask. It is used by the player to decide whether to route network traffic through the router or directly to another device on the same network. When **IP Address Setting** is set to **Auto (DHCP)**, the value displayed here is obtained using DHCP and cannot be changed.
 - **Default Gateway** : The IP address of the router. It is also called “default gateway” or “default router”. When **IP Address Setting** is set to **Auto (DHCP)**, the value displayed here is obtained using DHCP and cannot be changed.
 - **DNS1** : The IP address of the primary DNS (Domain Name System) server. DNS is the mechanism used to translate human-readable addresses to numeric IP addresses. When **IP Address Setting** is set to **Auto (DHCP)**, the value displayed here is obtained using DHCP and cannot be changed.
 - **DNS2** : The IP address of the secondary DNS server. When **IP Address Setting** is set to **Auto (DHCP)**, the value displayed here is obtained using DHCP and cannot be changed.

2. **Proxy Server** : Allows you to configure the proxy server settings. The proxy server works as an intermediary for network communication between clients and other servers, which can provide benefits like security, anonymity, or even circumvention of regional restrictions.

- **use** – Access to the Internet via a proxy server.
 - **Server Name** : Input the proxy host name using the remote control.
 - **Port Number** : Input the proxy host port number using the remote control.
- **not use** – Disables the use of a proxy server.

We recommend keeping **Proxy Server** set to **not use** unless you have a working Proxy Host and Proxy Port, and have to use the proxy server in order to access the internet.

3. **Information** : Displays current internet connection information, such as connection type, IP address, Ethernet MAC address, etc...

SETUP MENU OPTIONS

4. **Connection Test** : Allows you to test the internet connection. It is recommended to test the internet connection when you connect the player to the internet for the first time or when changes or modifications of the parameters have been made in the **IP Address Setting** section.
5. **BD-Live Connection** : Used to permit or restrict BD-Live content access.
 - **Permitted** – BD-Live access is permitted.
 - **Partially Permitted** – BD-Live access is permitted only for content that has a valid content owner certificate. Internet access is prohibited if the BD-Live content does not have a certificate. This option ensures that you are accessing only authentic content, although it may block your access to smaller independent content providers.
 - **Prohibited** – BD-Live access is prohibited.
6. **DLNA** : Enable / Disable DLNA network protocol.
7. **CIFS** : Enable / Disable SMB network protocol (*Feature under development*).

Language

Configuration of language preferences. This menu contains the following sub-items :

- **OSD** – Allows you to choose the language for the player's **Setup Menu** and the on-screen display.
- **Audio** – Allows you to choose the preferred audio language for DVD and Blu-ray Discs. If an audio track of the selected language is available on the disc, the audio track will be played back.
- **Subtitle** – Allows you to choose the preferred subtitle language for DVDs and Blu-ray Discs. If a subtitle of the selected language is available, it will be displayed.
- **Menu** – Allows you to choose the preferred language for displaying DVD and Blu-ray Disc menus. If a disc menu of the selected language is available, that menu will be shown instead of the default disc menu.

Playback

The **Playback Setup** section is designed to configure playback preferences. The setup items in this section are :

1. **Angle Mark** : Turns on / off the display of the angle icon when a DVD or Blu-ray Disc with multiple angles is played. Keeping the angle mark off avoids distraction from normal movie watching.
2. **PIP Mark** : Enables / disables PIP (picture in picture) display mode.
3. **Secondary Audio Mark** : Allows you to set the Secondary Audio Program mixing option. Some Blu-ray Discs contain a secondary audio and video program, such as a director's commentary. Some Blu-ray Discs have a sound effect when you make menu choices. This item allows you to decide whether to mix the Secondary Audio Program and menu sounds into the primary audio.
 - **On** – The Secondary Audio Program and menu sounds are mixed into the primary audio. Usually this will cause the primary audio volume to be slightly reduced.
 - **Off** – The Secondary Audio Program and menu sounds are not mixed into the primary audio and you cannot hear the secondary audio or menu sounds. This setting preserves the highest possible audio quality for the primary audio.
4. **Disc Auto Playback** : Select whether the player will start playing a CD, SACD (UBR-X200), DVD or Blu-ray disc automatically.
 - **On** – The disc starts playing upon insertion into the player.
 - **Off** – The player waits for the user to start playback by pressing the **PLAY** button
5. **Last Memory** : Select whether disc playback will start from the previously saved point or not. This setting applies to CDs, SACDs (UBR-X200), DVDs and certain Blu-ray Discs.
 - **On** – Playback automatically starts from the previously saved point.
 - **Off** – Playback starts from the beginning.
6. **PBC** : Enables / disables the Playback Control function on VCD / SVCD discs.

Options

The **Options** section of the **Setup Menu** allows you to configure additional options related to the UBR-X100 / X200 players :

- 1 **FL Dimmer** : Turns on / off the front panel display. This menu contains the following sub-items :
 - **Normal** – Front display intensity is normal.
 - **Slightly dimmed**– Front display intensity is lower.
 - **Dimmed** – Front display intensity is slow.
 - **Off** – Front display is off.

- 2 **Screen Saver** – Allows you to turn on / off the screen saver function. The screen saver is designed to minimise burn-in concerns for plasma or CRT display devices.
 - **Off** – The screen saver will not be activated. Only use this option if your TV does not have any burn-in issues.
 - **1 min** – The screen saver starts after 1 minute.
 - **2 min** – The screen saver starts after 2 minutes.
 - **3 min** – The screen saver starts after 3 minutes.

- 3 **Update** : Upgrades the player's firmware. This operation is only available when the playback is completely stopped or when there is no disc loaded.

The firmware is the system software that controls the features and functions of the player. Since the Blu-ray Disc specifications are new and evolving, it is possible that a Blu-ray Disc manufactured after the player was manufactured uses certain new features of the Blu-ray Disc specifications. To ensure the best possible viewing experience, the player may need a firmware update from time to time. Please visit the REAVON web site www.reavon.com to check for firmware updates.

 - **USB Storage** – You may download the firmware files from the REAVON web site to a USB drive and then use the USB drive to upgrade the player. Please follow the instructions on the firmware download web page.

- 4 **Setup Navigator** : Starts the setup wizard.

- 5 **Security** : Sets parental control ratings in order to prevent minors from watching inappropriate content. This function depends on whether the disc has been properly rated and encoded :
 - **Change Password** – To change the parental control password, enter a 4-digit number as the new password. Enter the new password again to confirm. If the two entries match, the new password replaces the old parental control password.
 - **Parental Control** – Adjust the parental control settings by entering the current parental control password.
 - **Country Code** – Some Blu-ray Discs may have different parental control ratings for different geographical areas.

SETUP MENU OPTIONS

- 6 **Load default** : To reset all settings to the factory default value. This operation is only available when the playback is completely stopped or when there is no disc loaded.
- 7 **System Information** : Displays the firmware version and the MAC address (physical network address of the player).

Useful Notes

- In order to extend 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 features of the player may not be compatible with certain discs or files.
- Some discs with special features may not be fully supported by the UBR-X100 / X200 players. This is not a malfunction of the units.
- In the case of player malfunction, please turn it off, wait for 30 seconds and turn it back on. If the problem still exists, please follow the troubleshooting instructions or contact REAVON support.

Troubleshooting

Use this chart to resolve general operational issues. If there are any problems that you cannot resolve, please contact REAVON support.

Symptom	Possible Cause	Solution
No sound	Audio cable is not properly connected	Check audio cable, and then reconnect if necessary.
	Mute is activated	Press the MUTE button to cancel the mute.
	Volume is too low	Press the VOL+ button to increase the volume to 100.
	SACD is played and the audio connection is coaxial or optical digital audio	This is not supported due to copyright restrictions of SACD. Please use the analog or HDMI audio output. (UBR-X200)
	DVD-Audio is played and the audio connection is coaxial or optical digital audio	This is not supported due to copyright restrictions of DVD-Audio. Please use the analog or HDMI audio output.
No picture	Video cable is not properly connected	Check video cable; reconnect if necessary.
	TV input is not correctly selected	Select the input to which the player is connected.
	"Pure Audio" mode engaged	Press the PURE button to cancel this mode.
	Video output format is not supported by the TV	Select a proper output resolution that is supported by your TV.
No color	Saturation set too low	Check the saturation setting on both TV and player.
Incorrect color	Incorrect color space setting	If using HDMI for video output, check the color space setting on both TV and player.

"No Disc" or "Unknown Disc" error	No disc or incompatible disc loaded in player	Eject disc and check.
	Dirty disc recording surface	Eject the disc and clean any dirt or fingerprints.
	Disc not properly loaded	Eject disc and make sure the label side is facing up and the record side is facing down.
	Condensation on the laser pick-up head	Turn on the player, eject the disc and leave the player on for about an hour.
Remote control failure	Remote control is out of range	Use the remote control within the effective range.
	Low battery	Replace the batteries
Temporary function failure	Scratched or damaged disc is used	Replace the disc.
	Some functions are not available during playback	Stop playback completely, then try again.
	Interference from other devices	Identify interference by turning off other devices, and then relocate or replace the offending device
Some Setup Menu items are grayed out	Some setup options cannot be changed while a disc is playing. Some setup options may be mutually exclusive with other setup options.	Fully stop playback, eject the disc and try the Setup Menu again.
"Connection Test" fails	No internet connection.	Verify that your router has a connection to the internet. Try power cycling the modem and router. Try a direct Ethernet connection if possible.
"Network" shows no server	No network connection. Media server not properly configured. Connected to wrong network.	Verify that other network features are functional on the device. If the network issues are isolated to the "Network" feature, consult your media server's documentation to ensure proper configuration.

Specifications

Designs and specifications are subject to change without notice.

Disc Types*	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
Output	Analogue Audio: 7.1ch, 5.1ch, stereo. (UBR-X200) Dedicated Stereo Analogue Audio: XLR balanced, RCA single-ended. (UBR-X200) Coaxial/Optical Audio: 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/1080p24/1080p/1080i/720p/576p/576i/480p/480i, 3D frame-packing 1080p24/720p.
Analogue Audio Characteristics** (Stereo Audio Output UBR-X200)	Frequency Response: 20Hz – 160kHz (-3dB ~ +0.05dB) Signal-to-Noise Ratio: > 120dBr THD+N: < 0.00018% Output Level: (RCA) 2.1±0.2Vrms. (XLR) 4.2±0.4Vrms Dynamic Range: > 120dB Crosstalk: > 118dB
Analogue Audio Characteristics** (Multi-channel Audio Output UBR-X200)	Frequency Response: 20Hz – 160kHz (-3dB ~ +0.05dB) Signal-to-Noise Ratio: > 120dBr THD+N: < 0.00031% Output Level: 2.1±0.2Vrms Dynamic Range: > 120dB Crosstalk: > 118dB
General Specifications	Power Supply : 220V – 240V ~, 50/60Hz AC Power Consumption : 42W (standby :0.5W) Dimensions : (L x H x P) : 430 x 82 x 351 mm Weight : 6.8 kg
Operating Temperature	41°F – 95°F 5°C – 35°C
Operating Humidity	15% – 75% No condensation

* Compatibility with user-encoded contents or user-created discs is on a best effort basis with no guarantee due to the variation of media, software and techniques used.

**Nominal specification.

RS-232 and IP Control

The REAVON UBR-X200 has an RS-232 control port and can be integrated into most custom home theatre control systems. This RS-232 port is configured as "Data Circuit Terminal Equipment" or DCE (DCE) by means of a 9-pin D-Sub type female connector (pin).

REAVON UBR-X100 and X200 players can also be controlled by IP commands.

RS-232 and IP control codes are available for download at www.reavon.com

WARRANTY

REAVON Limited Two Years Warranty

Your REAVON product has been manufactured to precise standards, and with rigid quality control throughout every process of manufacturing. It is warranted by REAVON against faulty materials or workmanship for two (2) full years from the original date of purchase.

This warranty applies only to REAVON brand products purchased from REAVON or an authorized REAVON retailer. The warranty provided is only applicable to the country in which the product was purchased and the warranty does not apply to any REAVON brand products sold by unauthorized REAVON retailers.

During the warranty period REAVON will, at its option, repair or replace the product free of charge provided that :

1. the product is returned to REAVON or an authorized REAVON retailer with proof of purchase date according to the claim procedure outlined below ;
2. the product has been purchased by the user for domestic and non-commercial use and has not been used for rental or other purposes for which this product was not intended ;
3. the product has not been misused or handled carelessly, deliberately damaged, neglected, tampered with, incorrectly installed, used on a voltage supply other than that stamped on the product or operated otherwise than in accordance with the operating and maintenance instructions;
4. the product or serial number has not been modified or, in the case of the serial number, removed ;
5. the product has not been damaged by auxiliary equipment not supplied or recommended by REAVON or used in connection with the product ;
6. and repairs have not been attempted other than by REAVON or a REAVON authorized service center and the warranty shall be invalidated if unauthorized persons carry out any alterations and / or repairs.

This limited warranty does not cover cosmetic damage and / or non-functional parts that do not affect normal use of the product, consumer-replaceable items including, but not limited to batteries, cables , bulbs and other consumables, as well as any damage caused by electrical fluctuations or surges, fire, water, lightning or other acts of nature.

REAVON does not guarantee uninterrupted or error-free operation of the product. This limited warranty will not extend to anyone other than the original purchaser of the product. It is not transferable. This warranty does not confer any rights other than those expressly stated herein and does not cover any claim for consequential loss or damage. The warranty provides additional benefits which do not affect your statutory rights as a consumer in the country in which the product was purchased.

REAVON provides repair service free of charge up to a cost equal to the original purchase price paid for the product and the liability of REAVON or other REAVON authorized technical center is limited to the original purchase price paid for the product.

Thank you for choosing REAVON. Your satisfaction is our highest priority.

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