UNIVERSAL DISC PLAYER REFERENCE GUIDE

Images for illustrative purposes only

Throughout the history of optical disc players, Pioneer has always been the forerunner, pursuing innovation to bring out the best from the ever-evolving media technology. We now present the latest universal disc players, to let you truly appreciate your favourite content in the comfort of your home. While inheriting the rigid construction and high-performance audio/video technologies from our previous Blu-ray disc players, the new universal disc players also support Ultra HD Blu-ray™, which has four times the resolution of 1080p Full HD. Various discs and formats can be played, so you can still enjoy your other digital disc collections.

This Product Reference Guide introduces the technologies and features that give the special qualities to the Pioneer universal disc player.

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Applicable models displayed in icons:

LX800 ····· UDP-LX800

LX500 ····· UDP-LX500

Three-Part Chassis Structure

LX800 LX500

The blocks for power supply, drive/digital processing, and analogue audio are separated into three to eliminate electrical and magnetic interference between the blocks. Additionally, the UDP-LX800 has rigid beams placed between the blocks to further reinforce the structure, while the internal layout is optimally designed to minimise vibration and signal loss.

UDP-LX800

Ultra-Rigid Construction with Ventless Steel Plate Top Panel and Aluminium Side Panels

LX800 LX500

Even the fan and the holes for heat radiation are excluded to realise a flat form with optimal electric circuit design, to minimise the mechanical motion sound from the BD drive. The result is significantly low noise and even more rigid and stable chassis structure. The UDP-LX800 also features aluminium side panels.

Rigid Under Base for Rigidity and Low Centre of Gravity

LX800 LX500

The 1.6 mm-thick chassis base is reinforced with a 3 mm-thick steel plate Rigid Under Base. This Double-Layered Chassis structure provides a low centre-of-gravity and overall rigidity that prevents the transfer of external vibration to the inner chassis, and offers a superior reading of the disc.

UDP-LX800

Rigid & Quiet UHD BD Drive

LX800 LX500

The high performance Rigid & Quiet BD Drive provides strong resistance against vibration with its rigid structure.

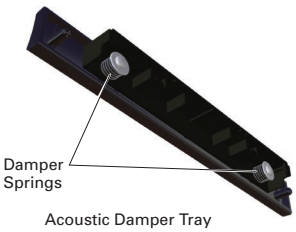
Honeycomb Mechanism Drive Cover

The disc drive is housed in a case with honeycomb mechanism cover that suppresses resonance from the high-speed rotation of the disc, while also reducing standing waves within the chassis. Anti-vibration paint is applied to the steel case for UDP-LX800.

UDP-LX800 BD Drive

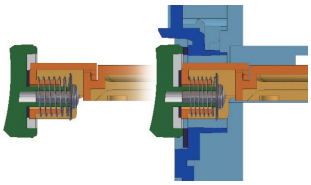
Acoustic Damper Tray

The Acoustic Damper Tray features separate disc tray panel and tray base which are connected by springs. When the tray is closed, the springs pull the tray panel tightly against the unit, suppressing the leakage of operating sound. The design provides enhanced damping effect by preventing the vibration generated inside the drive from being transferred to the chassis via the tray.



Acoustic Damper Tray

No direct contact between BD drive and chassis

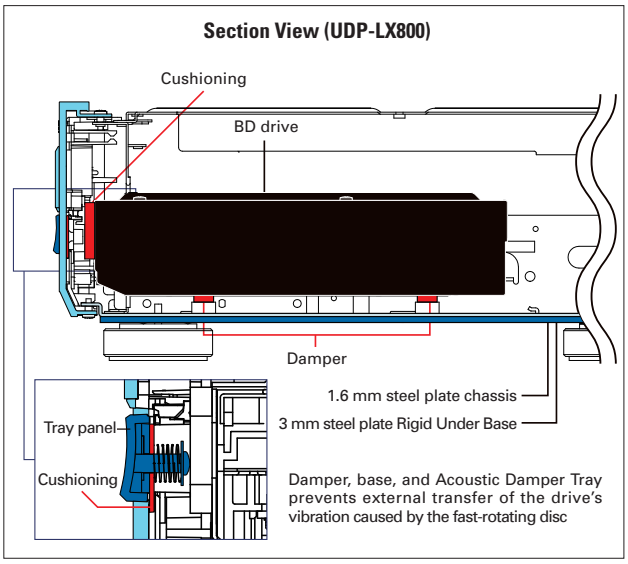


When closed, the tray panel (green) fits tightly against the front panel (blue), but only contacts the tray base (orange) via the damper springs.

Acoustic Damper Tray in Section

Float-Mounting Structure

In a floating structure, the drive is attached to the chassis via vibration-dampening rubber material. This minimises vibration generated inside and outside the drive.



Large-Capacity Power Transformer and Power Supply Circuitry

LX800 LX500

On the UDP-LX800, the dedicated large-capacity power transformer for the analogue audio circuitry and the custom capacitor constitute the superior power circuitry capable of instantaneous power supply. The unnecessary electromagnetic wave generated by the transformer is confined within the copper-plated shield case with anti-vibration paint. The f-hole-shaped embossing also helps to suppress standing-waves within the case, thereby achieving sound quality with both dynamic and silent features. The power supply circuitry of the UDP-LX800 is housed in a case coated with black anti-vibration paint, with an F clef emboss for suppressing standing waves, allowing stable and high-quality power supply to the drive and digital blocks.

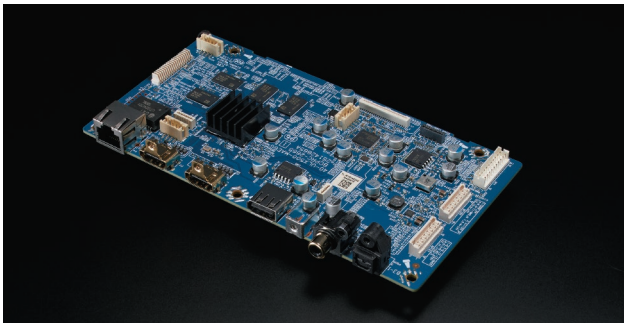
UDP-LX800

UDP-LX800

6-Layered Main Circuit Board for High S/N Ratio

LX800 LX500

By adopting a 6-layered IVH for the main circuit board, reducing the power supply/GND impedance, and eliminating ground loop noise, high S/N ratio is achieved in audio/video signal processing. The maximum 18 Gbps transmission through the latest HDMI standard becomes even more precise.



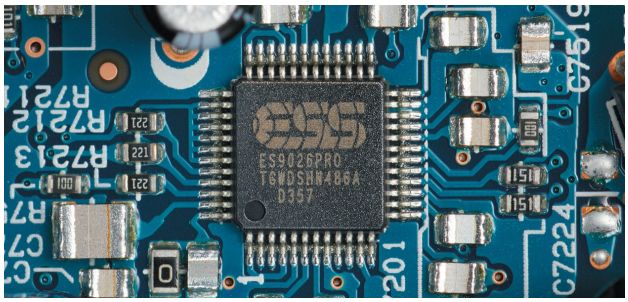
Audio Circuitry for Quality Sound

LX800

The technologies for Pioneer's SACD player PD-70AE is incorporated to further improve the analogue audio block. The paths for L and R signals are made identical including the pattern and parts layout. The L/R signal balance is strictly maintained, resulting in evermore precise and superior separation during playback. The bus bar between L and R signals also help to stabilise the ground.

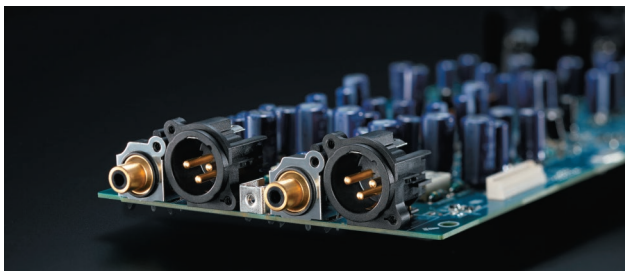
Twin 768 kHz/32-bit ESS SABRE DAC

Following the proven audio performance of Pioneer's highly acknowledged SACD player PD-70AE, the universal disc player uses the same ES9026PRO 8-channel DAC from ESS Technology for both the L/R channels. By processing eight circuits in parallel for each channel, extremely precise D/A conversion is realised, resulting in high S/N ratio that reproduces even the ambience.



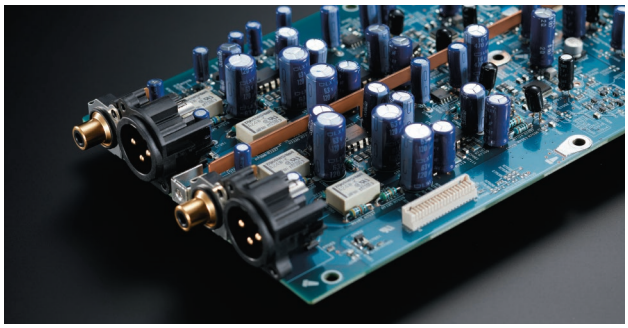
Balanced Circuitry

From D/A conversion to signal output, the whole analogue process is constructed with a full-balanced circuitry featuring independent left and right channels. This allows high-grade audio transmission by cutting out the interference from disturbance noise. When connected to an amplifier with balanced output, the common impedance in transmission can be minimised, resulting in enhanced channel separation.



Bus Bar

A metal bus bar with high current conductivity is placed across the audio circuitry, to help stabilise the ground.



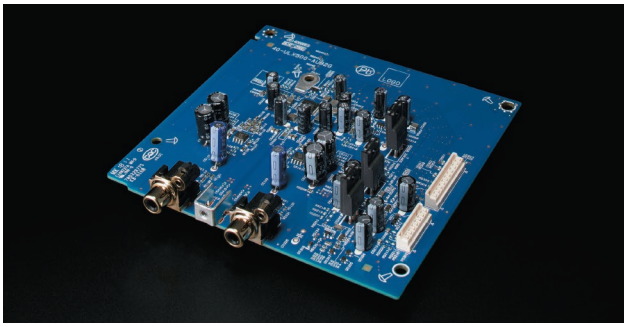
Custom Electrolytic Capacitors

Custom electrolytic capacitors selected through repeated listening trials are used for the universal disc player. The capacitors bring out the best from audio discs, letting you enjoy stable performance of powerful and dynamic sound.

Audio Circuitry for Quality Sound

LX500

The UDP-LX500 comes with an audio circuity for reproducing high-quality 2-channel analogue sound. The noise in the power GND area is minimised, while the fine-tuning provides sound rich in tone.



Ultra HD Blu-ray Playback

LX800 LX500

Ultra HD Blu-ray is the latest disc format with up to 3,840 x 2,160 pixels, four times the resolution of 1080p Full HD. In addition to Ultra HD Blu-ray, the universal disc player is compatible with regular Blu-ray™, DVD, SACD, audio CD, Hi-Res Audio, and other music files, so you can enjoy the highest video resolution, as well as your digital disc collection on a single disc player.

HDR/SDR Preset Mode for Optimal Performance for the Display

LX800 LX500

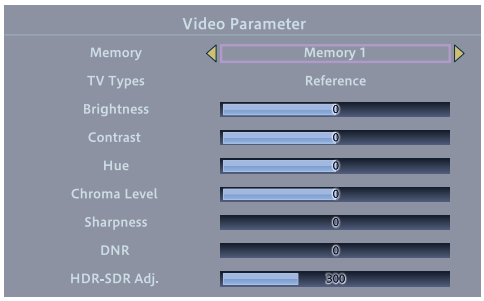
In addition to the video parameter "Reference" for reproducing the master quality, you can select "LCD TV," "OLED TV," or "Projector" for the video quality best suited to your display.

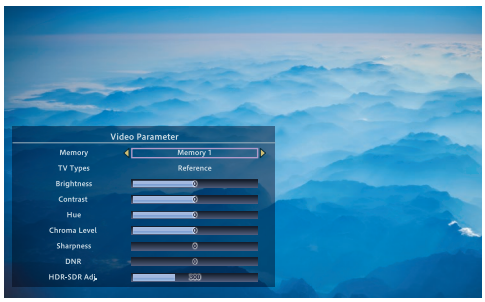
LCD TV: mode focusing on the reproduction of the dark areas by taking advantage of the smooth gradation characteristic of the device

OLED: mode focusing on the contrast by taking advantage of the high contrast ratio of the device

Projector: mode focusing on fine details with consideration to screen size and viewing position

Additionally, there are HDR/SDR presets for each video parameter, that automatically switches between HDR preset and SDR preset according to the output signal.





Video Adjust

LX800 LX500

You can change settings on seven video adjustment items including video noise reduction and detail adjustments. Up to three video settings can be saved on the memory.

1	Brightness	Adjusts the picture's brightness
2	Contrast	Adjusts the picture's contrast
3	Hue	Adjusts the colour (green and red) balance of the picture
4	Chroma Level	Adjusts the density of the colours
5	Sharpness	Adjusts the sharpness of the images
6	DNR	Reduces noise
7	HDR-SDR Adj.	For HDR-SDR conversion and maximum brightness value according to the connected display

Dolby Vision (Low Latency Compatible)

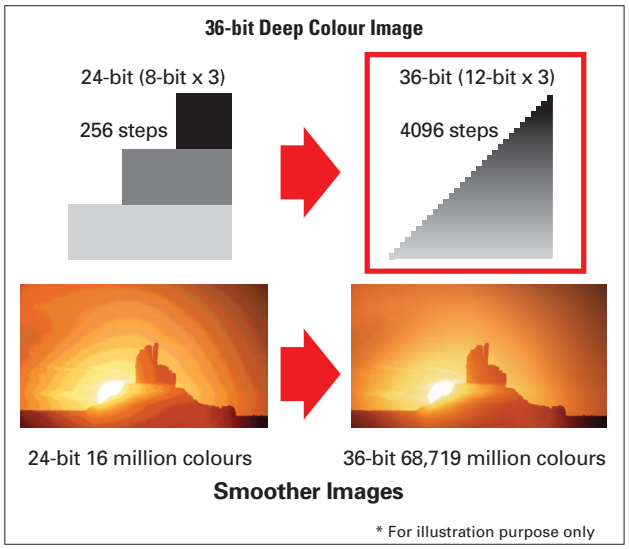
LX800 LX500

The universal disc player is Dolby Vision compatible, and outputs Dolby Vision signals to a Dolby Vision-enabled TV that can decode and deliver the full Dolby Vision experience. Dolby Vision is an advanced HDR video standard that transforms your TV viewing with astonishingly more brightness, deeper darks, expanded contrast, ultra-vivid colours, refined detail, and enhanced three-dimensional feel.

36-bit Deep Colour

LX800 LX500

The Pioneer universal disc player supports 36-bit Deep Colour, featuring smooth gradation steps with more accurate precision of brightness and colour information, resulting in superbly detailed, natural colour.



"x.v.Colour"

LX800 LX500

The Pioneer universal disc player supports "x.v.Colour," which almost doubles the range of colours (known as the 'gamut') that can be accurately captured, and reproduced on a compatible display, thereby more closely matching the natural characteristics of the human eye.

Direct Function for Pure Analogue Audio Output

LX800 LX500

By a push of a key on the remote control or the front panel, you can turn the DIRECT function on. The function blocks the audio/video digital signal processing which can affect analogue audio. This allows you to enjoy pure, high-quality sound from Hi-Res 2ch audio files or CDs.

DIRECT key on remote control

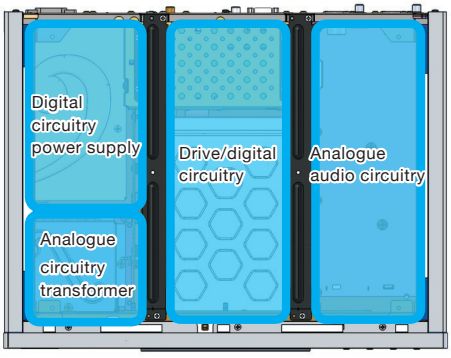
DIRECT key on front panel

DIRECT function indicator

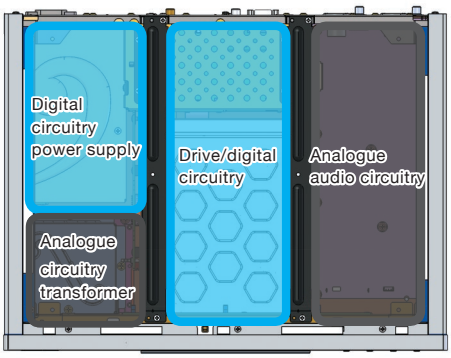
Transport Function for Pure Digital Audio/Video Output

LX800

The function completely turns off the analogue audio circuitry from power supply to output, by cutting the power supply to the transformer during HDMI connection. The HDMI's S/N ratio further improves and realises high-quality audio and video playback. Press the DIRECT key on the remote control or the unit's DIRECT/TRANSPORT key to switch between Off/Direct/Transport. The Transport function is also effective for coaxial and optical output.



Transport Off



Transport On (Digital only)

Circuitry On
Circuitry Off

Dual HDMI Output

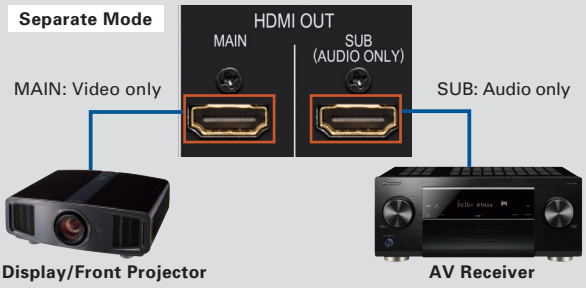
LX800 LX500

The universal disc player comes with dual HDMI output, allowing separate transmission of audio and video signals via the main and sub HDMI terminals. The isolation of the audio signals creates pure sound free of interference. Output signals from each terminal differ by connection mode.

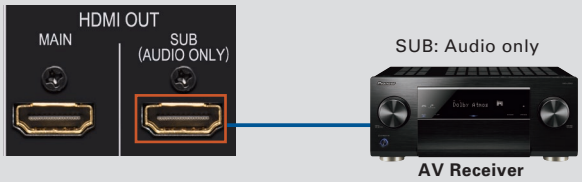
HDMI DUAL OUTPUT BY CONNECTION MODE

HDMI Mode	HDMI Out Main			HDMI Out Sub		
	Video	Audio	Control	Video	Audio	Control
Single	•	•	•	—	—	—
Separate	•	—	—	—	•	•
Pure Audio	—	—	—	—	•	•

Separate Mode



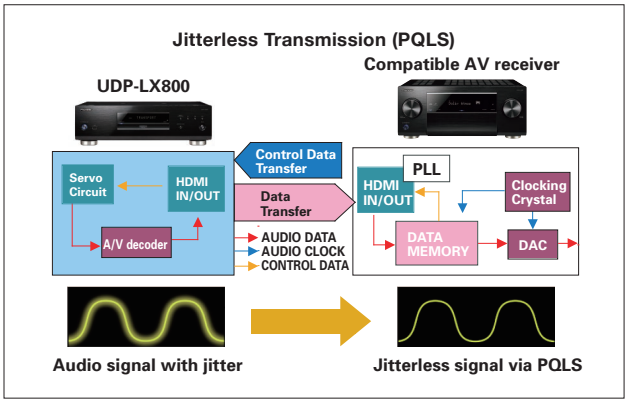
Pure Audio Mode



PQLS Jitter-less Sound Transmission via HDMI

LX800 LX500

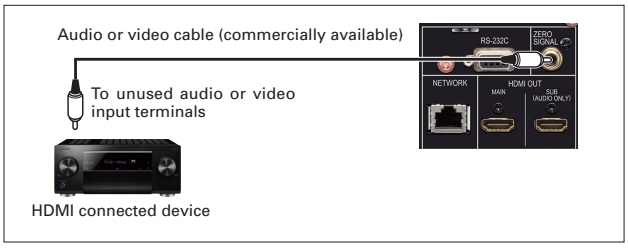
With the precision quartz controller on a compatible AV receiver, Pioneer's PQLS (Precision Quartz Lock System) eliminates distortion caused by timing errors. It controls the amount of audio signals from the AV receiver to the universal disc player, giving the best possible digital-to analogue conversion. The universal disc player supports PQLS 2ch Audio, Multi- Surround, and Bit-stream.



Zero Signal Terminal

LX800 LX500

The Zero Signal Terminal is a Pioneer-original feature dedicated to tuning audio and video quality without signal transmission. By connecting the Zero Signal Terminal with the audio/video input terminal of the HDMI connected device such as an AV receiver or TV, the GND impedance is reduced to align with the universal disc player, and the potential difference is suppressed, allowing a precise and high-quality signal transmission.



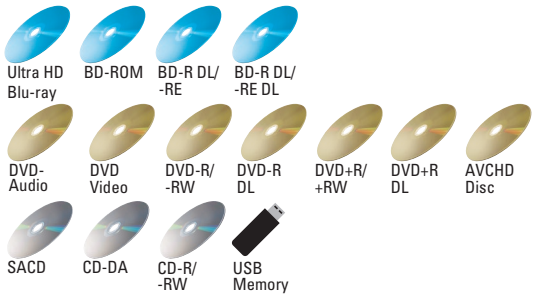
Various Playable Formats

LX800 LX500

Various audio, video, and image files including Hi-Res Audio such as WAV, FLAC, AIFF, ALAC, and DSD, can be played back via USB, network, or discs.

Hi-Res AUDIO

Playable Media



Playable Files

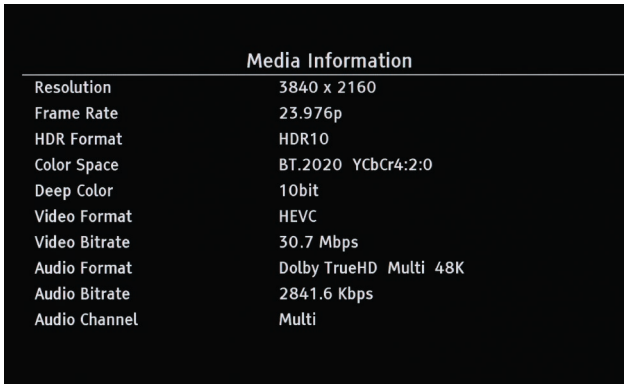
Playable Files (Extensions)	Playable Media			File Specifications
	BD-R/RE/-R DL/ RE DL/-R LTH, DVD-R/RW/-R DL/ +R/+RW/+R DL, CD-R/RW	USB Devices*	Network	
MP3 (.mp3)	•	•	•	Sampling frequencies: Up to 48 kHz/Bit rate: Up to 320 kbps/Audio type: MPEG-1 Audio Layer 3
WMA** (.wma)	•	•	•	Sampling frequencies: Up to 48 kHz/Bit rate: Up to 192 kbps/Audio type: WMA version 9
AAC (.m4a)	•	•	•	Sampling frequencies: Up to 96 kHz/Bit rate: Up to 320 kbps/Audio type: MPEG4-AAC
MPEG2 AAC (.aac)	•	•	•	Sampling frequencies: Up to 48 kHz/Bit rate: Up to 320 kbps/Audio type: MPEG2-AAC
Vorbis OGG (.ogg)	•	•	•	Sampling frequencies: Up to 96 kHz/Channel: 2ch
WAV (.wav)	•	•	•	Sampling frequencies: Up to 192 kHz/Quantization bitrate: 16 bit, 24 bit/ Channel: 2ch/Multi (7.1 ch)/(PCM codec)
FLAC (.flac)	•	•	•	Sampling frequencies: Up to 192 kHz/Quantization bitrate: 16 bit, 24 bit/ Channel: 2ch/Multi (5.1 ch)
DSD (.dff/.dsf)	•	•	•	2.8 MHz, 5.6 MHz/Channel: 2ch/Multi (5.1 ch)
AIFF (.aif/.aiff)	•	•	•	Sampling frequencies: Up to 192 kHz/Quantization bitrate: 16 bit, 24 bit/ Channel: 2ch/(PCM codec)
ALAC (.m4a)	•	•	•	Sampling frequencies: Up to 192 kHz/Quantization bitrate: 16 bit, 24 bit/ Channel: 2ch
JPEG (.jpg/.jpeg)	•	•	•	Maximum resolution: 4 000 x 3 000 pixels
MPO (.mpo)	•	•	•	3D photo image
PNG (.png)	•	•	•	Maximum resolution: 2 048 x 1 024 pixel/Animated PNG files are not supported.
GIF (.gif)	•	•	•	Maximum resolution: 2 048 x 1 024 pixel/Animated GIF files are not supported. Rotate is not supported.
MP4 (.mp4)	•	•	•	Maximum resolution: Up to 3 840 x 2 160/Video: MPEG 2, H.264, H.265, VP9/Audio: AAC, MP3, HE-AAC, AC-3
WMV (.wmv)	•	•	•	Maximum resolution: Up to 3 840 x 2 160/Video: WMV9, WMV9AP (VC-1)/ Audio: WMA, MP3, LPCM, AAC, AC-3
AVI (.avi)	•	•	•	Maximum resolution: Up to 3 840 x 2 160/Video: MPEG 2, H.264, H.265, VP9/Audio: MP3, AAC
3GP (.3gp)	•	•	•	Maximum resolution: Up to 3 840 x 2 160/Video: H.263, MPEG4, H.264, H.265, VP9/Audio: MPEG-4 AAC
FLV (.flv)	•	•	•	Video: Sorenson H.263 (FLV1), VP6/(FLV4), H.264/Audio: MP3, AAC

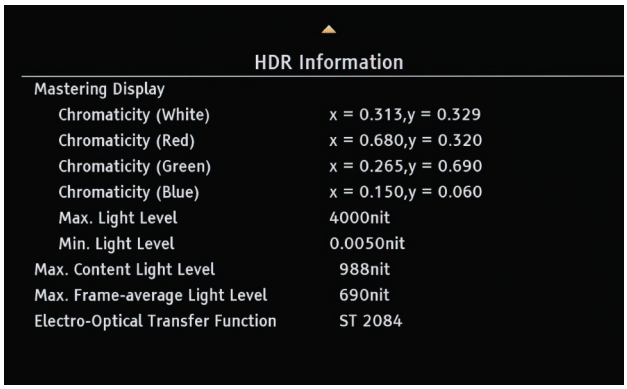
*** Supports FAT16 and FAT32 file systems.**
**** WMA Pro, Lossless and Voice are not supported.**

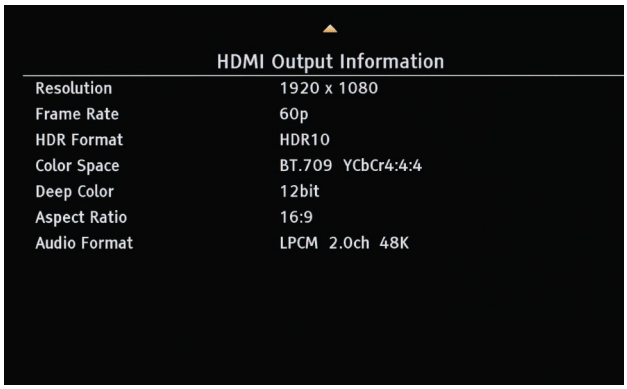
Disc Information On-Screen Display

LX800 LX500

You can display the disc information on your screen by pressing and holding the remote control's DISPLAY button. In addition to the playing disc's details, you can easily check mastering information such as MaxFALL (Maximum Frame Average Light Level) and MaxCLL (Maximum Content Light Level) available on some HDR content, as well as HDMI output information.







BD-LIVE Compatible

LX800 LX500

With the BD-LIVE function, you can download content such as movie trailers and additional audio and subtitle languages, or play on-line games over the internet. The downloaded data is stored in the universal disc player's storage. Available features depend on the disc.

BONUSVIEW Compatible

LX800 LX500

The BONUSVIEW function lets you simultaneously watch bonus feature videos in picture-in-picture form, while you watch your Blu-ray disc movies.

Continued Viewing Playback

LX800 LX500

With the Continued Viewing Playback function, you can easily continue watching discs from where you left off. Press the CONTINUED key on the remote control during playback, then turn off the power. To re-start, turn the power back on, select "Yes" on the pop-up message, and playback starts from the memorized point.

Bookmarks

LX800 LX500

Just press the BOOKMARK key on the remote control to create bookmarks for the playing video. You can make up to 12 bookmarks. To view the bookmarked scene, press and hold the BOOKMARK key, and select from the list of bookmarks. To delete, select the bookmark and press the CLEAR key. Bookmarks will be cancelled when the disc tray is opened, or the power is turned off.

* Bookmark function may not be available for some discs.

30 sec Skip Forward/10 sec Skip Back

LX800 LX500

If you want to skip the ad, or take another look at a scene you've missed, you can easily skip forward 30 seconds or skip back 10 seconds with a push of a button on the remote control.

Auto Power Off

LX800 LX500

The universal disc player will automatically turn off after being left uncontrolled for a certain time. You can select from off, 15, or 30 minutes.

Firmware Update (USB/Network)

LX800 LX500

Firmware updates can be done through LAN connection*, or by using a USB memory device.

* The universal disc player needs to be connected to the internet via a home LAN network.

Self-Illuminating Remote Control

LX800 LX500

The self-illuminating remote control allows easy operation even in a darkly-lit home theatre. The keys are clearly laid out in four groups according to their functions, offering smooth control. The remote is designed to fit comfortably in your hand.

FEATURE COMPARISON: UNIVERSAL DISC PLAYERS

	UDP-LX800	UDP-LX500
Construction		
Three-Part Chassis Structure	•	•
Ultra-Rigid Construction	•	•
Rigid Under Base	•	•
Rigid & Quiet UHD BD Drive	•	•
Parts and Material		
Large Capacity Power Transformer and Power Supply Circuitry	•	• (Power Supply Circuitry)
6-Layered Main Circuit Board	•	•
Audio Circuitry for Quality Sound	•	•
Twin 768 kHz/32-bit ESS SABRE™ DAC	•	
Balanced Circuitry	•	
Bus Bar	•	
Custom Electrolytic Capacitors	•	
Functions		
Ultra HD Blu-ray Playback	•	•
HDR/SDR Preset Mode	•	•
Video Adjust	•	•
Dolby Vision (Low Latency Compatible)	•	•
36-bit Deep Colour	•	•
"x.v.Colour"	•	•
Direct Function	•	•
Transport Function	•	
Dual HDMI Output	•	•
PQLS Jitter-less Sound Transmission via HDMI	•	•
Zero Signal Terminal	•	•
Disc Information On-Screen Display	•	•
BD-LIVE Compatible	•	•
BONUSVIEW Compatible	•	•
Continued Viewing Playback	•	•
Bookmarks	•	•
30 sec Skip Forward/10 sec Skip Back	•	•
Auto Power Off	•	•
Firmware Update (USB/Network)	•	•
Self-Illuminating Remote Control	•	•

NPR (New Product Release)

UDP-LX800/CMP

UDP-LX800/CMQ

UDP-LX500/CVP

UDP-LX500/CDC

UDP-LX500/CVQ

Pioneer

Universal Disc Player

UDP-LX800

This flagship universal disc player is the embodiment of Pioneer's considerable expertise amassed over the years through the development of successive optical disc players. Elaborately engineered for the ideal disc playback, the UDP-LX800 features extremely rigid construction to achieve high S/N ratio for quality audio and video performance. With support for the latest Ultra HD Blu-ray™ format, you can enjoy the beautiful spectacle with four times the resolution of 1080p Full HD. Two ESS SABRE PRO Series DACs are used in parallel to provide audiophile sound. Other features include SDR/HDR Preset Mode, Direct/Transport Function, and XLR balanced output terminal.

CONSTRUCTION

- Three-Block Internal Layout (Power Supply, Drive/Digital Processing, Analogue Audio)
- Ultra-Rigid Construction with Ventless Steel Plate Top Panel and Aluminium Side Panels
- 3 mm Steel Plate Rigid Under Base for Rigidity and Low Centre of Gravity
- 6-Layered IVH Main Circuit Board for High S/N Ratio
- Rigid & Quiet BD Drive
  - Honeycomb Mechanism Drive Cover with Anti-Vibration Paint
  - Acoustic Damper Tray with Anti-Vibration Paint
  - Float-Mounting Structure

VIDEO FEATURES

- Ultra HD Blu-ray Playback
- 4 Presets According to Display Type, with Automatic Detection/ Switching for SDR/HDR Signals
- Video Adjust
- HDR10
- Dolby Vision (Low Latency Compatible)
- 36-bit Deep Colour/"x.v.Colour"

AUDIO FEATURES

- 8ch Parallel Drive with SABRE ES9026PRO DAC x 2
- Large-Capacity Power Supply Transformer
- Custom Electrolytic Capacitors
- Direct Function for Pure Analogue Audio Output
- Transport Function for Pure Digital Audio/Video Output
- Dual HDMI Output
- PQLS Jitter-less Sound Transmission via HDMI (with compatible AV Receiver)

CONVENIENCE

- Disc/HDMI/HDR Information On-Screen Display
- BD-Live/BONUSVIEW
- Continued Viewing Playback
- 30 sec Skip Forward/10 sec Skip Back
- Auto Power Off
- Firmware Update (USB/Network)
- Self-Illuminating Remote Control

PLAYBACK MEDIA

- BD-ROM (Ultra HD Blu-ray/3D BD/BD)/BD-R (DL)/BD-R LTH/BD-RE (DL)
- DVD-ROM (DVD-Video/DVD-Audio)/DVD-R (DL)/DVD-RW/ DVD+R (DL)/DVD+RW
- Audio CD (CD-DA/SACD)/CD-ROM/CD-R/CD-RW
- USB Memory/HDD

TERMINALS

- HDMI 2 Out (1 Main for Audio/Video, 1 Sub for Audio)
- Digital Coaxial Out
- Digital Optical Out
- USB 2 In (1 Front, 1 Rear)
- Ethernet
- RS-232C
- Analogue Audio Out (RCA Unbalanced, XLR Balanced)
- Zero Signal Terminal (for Audio/Video Quality Tuning)

SPECIFICATIONS

- Power Requirements: AC 220-240 V, 50/60 Hz
- Power Consumption: 42 W
- Power Consumption During Standby: 0.45 W (Full)/1.4 W (Network Standby On)
- Dimensions (W X H x D): 435 x 130 x 339 mm
- Weight: 13.8 kg

REAR PANEL

Three-Part Chassis Structure

The blocks for power supply, drive/digital processing, and analogue audio are separated into three to eliminate electrical and magnetic interference between the blocks. The rigid beams placed between the blocks further reinforce the structure, while the internal layout is optimally designed to minimize vibration and signal loss.

Ultra-Rigid Construction with Ventless Steel Plate Top Panel and Aluminium Side Panels

Even the holes for heat radiation are excluded to realise a flat form with optimal electric circuit design, to minimise the mechanical motion sound from the BD drive. The result is significantly low noise and even more rigid and stable chassis structure.

Rigid Under Base for Rigidity and Low Centre of Gravity

The 1.6 mm-thick chassis base is reinforced with a 3 mm-thick steel plate Rigid Under Base. This Double-Layered Chassis structure provides a low centre-of-gravity and overall rigidity that prevents the transfer of external vibration to the inner chassis, and offers a superior reading of the disc.

Large-Capacity Power Transformer and Power Supply Circuitry

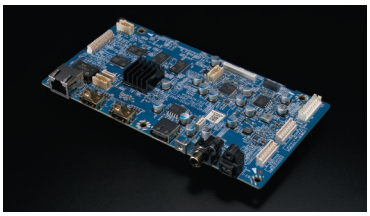
The dedicated large-capacity power transformer for the analogue audio circuitry and the custom capacitor constitute the superior power circuitry capable of instantaneous power supply. The unnecessary electromagnetic wave generated by the transformer is confined within the copper-plated shield case with anti-vibration paint. The f-hole-shaped embossing also helps to suppress standing-waves within the case, thereby achieving sound quality with both dynamic and silent features. The power supply circuitry has a case with an F clef emboss for suppressing standing waves, and black anti-vibration paint, allowing stable and high-quality power supply to the drive and digital blocks.

Universal Disc Player with Ultra HD Blu-ray Playback

As a universal disc player, the UDP-LX800 can play various optical discs including the latest disc format Ultra HD Blu-ray which has four times the resolution of 1080p Full HD, as well as Hi-Res Audio and other music files, and video files.

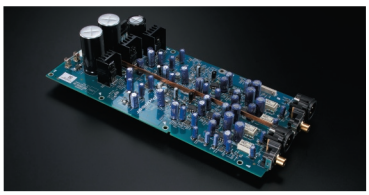
6-Layered Main Circuit Board for High S/N Ratio

A 6-layered IVH is used for the main circuit board to thoroughly eliminate digital noise. This optimises the digital signal wiring and minimises GND impedance, and dramatically improves S/N ratio in audio/video signal processing. The maximum 18 Gbps transmission through the latest HDMI standard becomes even more precise.



Audio Circuitry for Quality Sound

The technologies for Pioneer's SACD player PD-70AE is incorporated to further improve the analogue audio block. The paths for L and R signals are made identical including the pattern and parts layout. The L/R signal balance is strictly maintained, resulting in evermore precise and superior separation during playback. The bus bar between L and R signals also help to stabilize the ground.



SDR/HDR Preset Mode for Optimal Performance for the Display

In addition to the video parameter "Reference" for reproducing the master quality, you can select "LCD TV," "OLED TV," or "Projector" for the video quality best suited to your display. Additionally, there are SDR/HDR presets for each video parameter, that automatically switches between SDR preset and HDR preset according to the output signal.

Disc Information On-Screen Display

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Transport Function for Pure Digital Audio/Video Output

The function completely turns off the analogue audio circuitry from power supply to output, by cutting the power supply to the transformer during HDMI connection. The HDMI's S/N ratio further improves and realises high-quality audio and video playback.

Transport On (Digital only)

Note: Specifications and design subject to change without notice.

Pioneer

Universal Disc Player

UDP-LX800

This flagship universal disc player is the embodiment of Pioneer's considerable expertise amassed over the years through the development of successive optical disc players. Elaborately engineered for the ideal disc playback, the UDP-LX800 features extremely rigid construction to achieve high S/N ratio for quality audio and video performance. With support for the latest Ultra HD Blu-ray™ format, you can enjoy the beautiful spectacle with four times the resolution of 1080p Full HD. Two ESS SABRE PRO Series DACs are used in parallel to provide audiophile sound. Other features include SDR/HDR Preset Mode, Direct/Transport Function, and XLR balanced output terminal.

CONSTRUCTION

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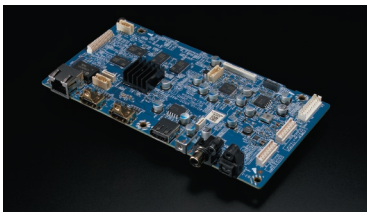

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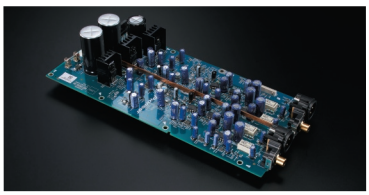

SDR/HDR Preset Mode for Optimal Performance for the Display

In addition to the video parameter "Reference" for reproducing the master quality, you can select "LCD TV," "OLED TV," or "Projector" for the video quality best suited to your display. Additionally, there are SDR/HDR presets for each video parameter, that automatically switches between SDR preset and HDR preset according to the output signal.

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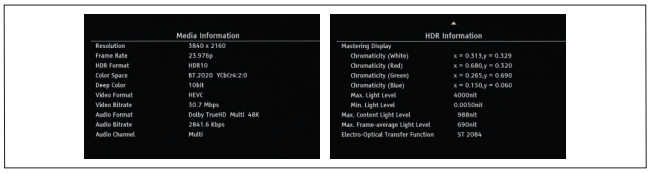

Transport Function for Pure Digital Audio/Video Output

The function completely turns off the analogue audio circuitry from power supply to output, by cutting the power supply to the transformer during HDMI connection. The HDMI's S/N ratio further improves and realises high-quality audio and video playback.

Transport On (Digital only)

Note: Specifications and design subject to change without notice.

Pioneer

Universal Disc Player

UDP-LX500

Pioneer's brand-new universal disc player brings the spectacle of Ultra HD Blu-ray™ to your home entertainment, with four times the resolution of 1080p Full HD. Featuring three-block internal layout, Ultra Rigid Construction, and Double-Layered Chassis for a robust build, 6-layered main circuit board, SDR/HDR preset mode, and support for HDR10/Dolby Vision for quality picture, as well as premium audio DAC and Zero Signal Terminal for high-grade sound, the UDP-LX500 lets you enjoy the highest video resolution as well as your other digital disc collections.

CONSTRUCTION

- Three-Block Internal Layout (Power Supply, Drive/Digital Processing, Analogue Audio)
- Ultra-Rigid Construction without Radiation Holes
- Double-Layered Chassis Reinforced with 3 mm Steel Plate for Rigidity and Low Centre of Gravity
- 6-Layered Main Circuit Board for High S/N Ratio
- Rigid & Quiet UHD BD Drive
  - Honeycomb Mechanism Drive Cover
  - Acoustic Damper Tray
  - Float-Mounting Structure

VIDEO FEATURES

- Ultra HD Blu-ray Playback
- SDR/HDR Preset Mode for Optimal Performance for the Display
- Video Adjust
- HDR10
- Dolby Vision (Low Latency Compatible)
- 36-bit Deep Colour/"x.v.Colour"

AUDIO FEATURES

- Highly Precise D/A Conversion
- Direct Function for Pure Analogue Audio Output
- Dual HDMI Output
- PQLS Jitter-less Sound Transmission via HDMI (with compatible AV Receiver)

CONVENIENCE

- Disc Information On-Screen Display
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- Digital Coaxial Out
- Digital Optical Out
- USB 2 In (1 Front, 1 Rear)
- Ethernet
- RS-232C
- Analogue Audio Out (Unbalanced)
- Zero Signal Terminal (for Audio/Video Quality Tuning)

SPECIFICATIONS

- Power Requirements: AC 110-240 V, 50/60 Hz
- Power Consumption: 28 W
- Power Consumption During Standby: 0.45 W (Full)/1.3 W (Network Standby On)
- Dimensions (W X H x D): 435 x 118 x 337 mm
- Weight: 10.3 kg

REAR PANEL

Three-Block Internal Layout

The blocks for power supply, drive/digital processing, and analogue audio are separated into three to eliminate electrical and magnetic interference between the blocks.

Ultra-Rigid Construction without Radiation Holes

Even the holes for heat radiation are excluded to realise a flat form with optimal electric circuit design, and minimum mechanical noise from the rotating system. The result is significantly low noise and even more rigid and stable chassis structure.

Double-Layered Chassis with Rigid Under Base for Rigidity and Low Centre of Gravity

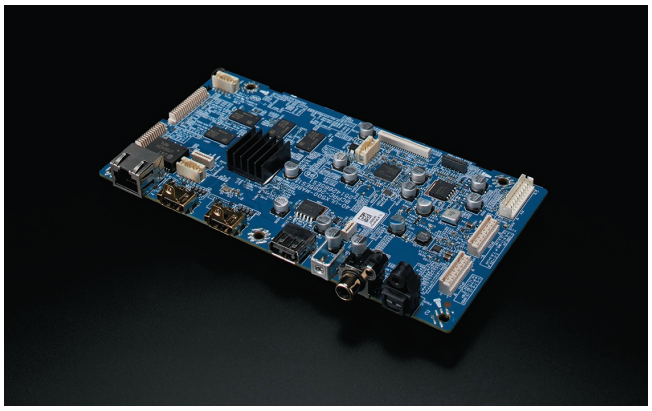
The 1.6 mm-thick chassis base is reinforced with a 3 mm-thick steel plate Rigid Under Base. This Double-Layered Chassis structure provides a low centre-of-gravity and overall rigidity that prevents the transfer of external vibration to the inner chassis, and offers a superior reading of the disc.

Ultra HD Blu-ray Playback

Ultra HD Blu-ray is the latest disc format with up to 3,840 x 2,160 pixels, four times the resolution of 1080p Full HD. In addition to Ultra HD Blu-ray, the UDP-LX500 is compatible with regular Blu-ray™, DVD, SACD, and audio CD, so you can enjoy the highest video resolution, as well as your digital disc collection on a single disc player.

6-Layered Main Circuit Board for High S/N Ratio

A 6-layered IVH is used for the main circuit board to thoroughly eliminate digital noise. This optimises the digital signal wiring and minimises GND impedance, and dramatically improves S/N ratio in audio/video signal processing. The 18 Gbps transmission through the latest HDMI standard becomes even more precise.



SDR/HDR Preset Mode for Optimal Performance for the Display

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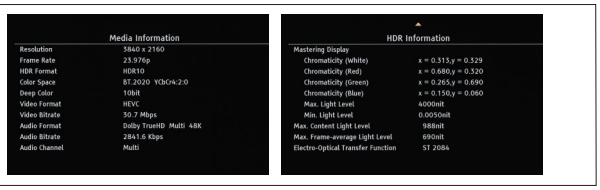
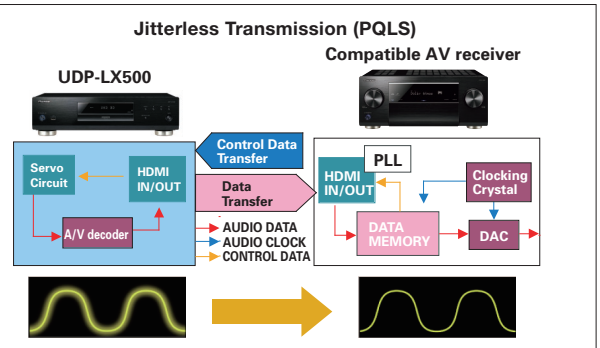


PQLS Jitter-less Sound Transmission

With the precision quartz controller on a compatible AV receiver, Pioneer's PQLS (Precision Quartz Lock System) eliminates distortion caused by timing errors. It controls the amount of audio signals from the AV receiver to the UDP-LX500, giving the best possible digital-to-analogue conversion. UDP-LX500 supports PQLS 2ch Audio, Multi-Surround, and Bit-stream.



Zero Signal Terminal

The Zero Signal Terminal is a Pioneer-original feature dedicated to tuning audio and video quality without signal transmission. By connecting the Zero Signal Terminal with the audio/video input terminal of an AV receiver etc., the reference level (GND) of the audio/video signals is aligned between the two devices, and the potential difference is suppressed, allowing a precise and high-quality signal transmission.

ELITE

Universal Disc Player

UDP-LX500

Elite's brand-new universal disc player brings the spectacle of Ultra HD Blu-ray™ to your home entertainment, with four times the resolution of 1080p Full HD. Featuring three-block internal layout, Ultra Rigid Construction, and Double-Layered Chassis for a robust build, 6-layered main circuit board, SDR/HDR preset mode, and support for HDR10/Dolby Vision for quality picture, as well as premium audio DAC and Zero Signal Terminal for high-grade sound, the UDP-LX500 lets you enjoy the highest video resolution as well as your other digital disc collections.

Construction

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- Analog Audio Out (Unbalanced)
- Zero Signal Terminal (for Audio/Video Quality Tuning)

Specifications

- Power Requirements: AC 120 V, 60 Hz
- Power Consumption: 28 W
- Power Consumption During Standby: 0.4 W (Full)/1.2 W (Network Standby On)
- Dimensions (W X H x D): 17-1/8 x 4-5/8 x 13-1/4 inches (435 x 118 x 337 mm)
- Weight: 22.7 lbs. (10.3 kg)

Three-Block Internal Layout

The blocks for power supply, drive/digital processing, and analog audio are separated into three to eliminate electrical and magnetic interference between the blocks.

Ultra-Rigid Construction without Radiation Holes

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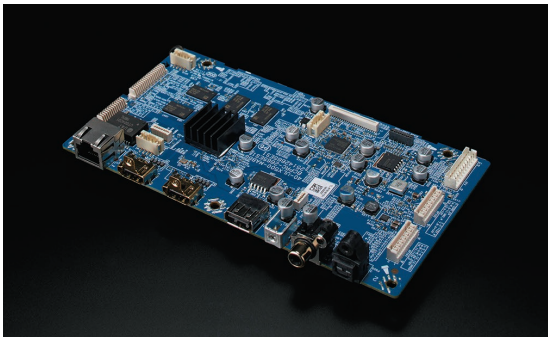

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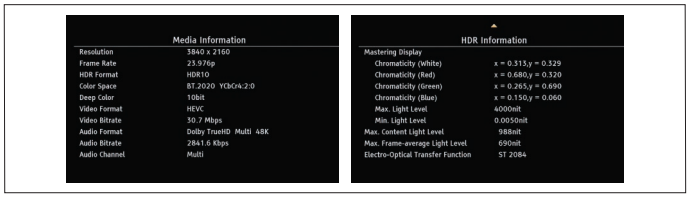

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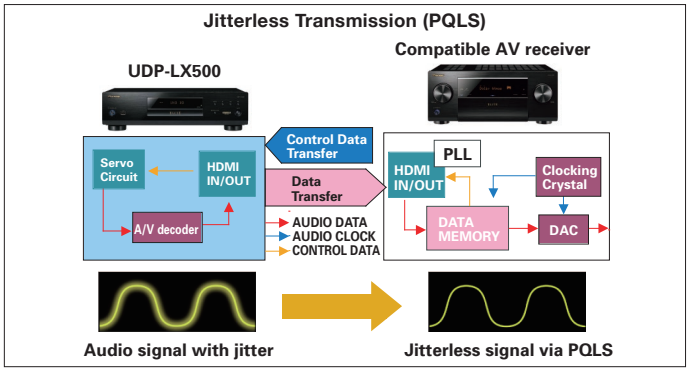

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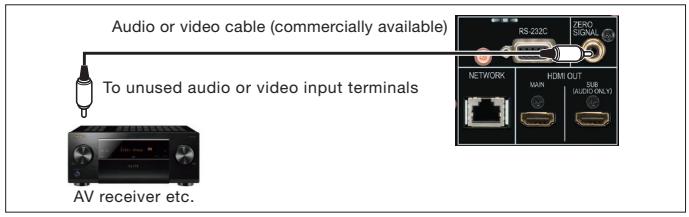

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Pioneer

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VIDEO FEATURES

- Ultra HD Blu-ray Playback
- SDR/HDR Preset Mode for Optimal Performance for the Display
- Video Adjust
- HDR10
- Dolby Vision (Low Latency Compatible)
- 36-bit Deep Colour/"x.v.Colour"

AUDIO FEATURES

- Highly Precise D/A Conversion
- Direct Function for Pure Analogue Audio Output
- Dual HDMI Output
- PQLS Jitter-less Sound Transmission via HDMI (with compatible AV Receiver)

CONVENIENCE

- Disc Information On-Screen Display
- BD-Live/BONUSVIEW
- Continued Viewing Playback
- 30 sec Skip Forward/10 sec Skip Back
- Auto Power Off
- Firmware Update (USB/Network)
- Self-Illuminating Remote Control

PLAYBACK MEDIA

- BD-ROM (Ultra HD Blu-ray/3D BD/BD)/BD-R (DL)/BD-R LTH/BD-RE (DL)
- DVD-ROM (DVD-Video/DVD-Audio)/DVD-R (DL)/DVD-RW/ DVD+R (DL)/DVD+RW
- Audio CD (CD-DA/SACD)/CD-ROM/CD-R/CD-RW
- USB Memory/HDD

TERMINALS

- HDMI 2 Out (1 Main for Audio/Video, 1 Sub for Audio)
- Digital Coaxial Out
- Digital Optical Out
- USB 2 In (1 Front, 1 Rear)
- Ethernet
- RS-232C
- Analogue Audio Out (Unbalanced)
- Zero Signal Terminal (for Audio/Video Quality Tuning)

SPECIFICATIONS

- Power Requirements: AC 110-240 V, 50/60 Hz (Asia)/AC 120 V, 60 Hz (Taiwan)
- Power Consumption: 28 W
- Power Consumption During Standby: Full 0.45 W (Asia)/0.4 W (Taiwan), Network Standby On 1.3 W (Asia)/1.2 W (Taiwan)
- Dimensions (W X H x D): 435 x 118 x 337 mm
- Weight: 10.3 kg

REAR PANEL

UDP-LX500(B)CVQ3AP (Asia model)

UDP-LX500(B)CVF3AN (Taiwan model)

Three-Block Internal Layout

The blocks for power supply, drive/digital processing, and analogue audio are separated into three to eliminate electrical and magnetic interference between the blocks.

Ultra-Rigid Construction without Radiation Holes

Even the holes for heat radiation are excluded to realise a flat form with optimal electric circuit design, and minimum mechanical noise from the rotating system. The result is significantly low noise and even more rigid and stable chassis structure.

Double-Layered Chassis with Rigid Under Base for Rigidity and Low Centre of Gravity

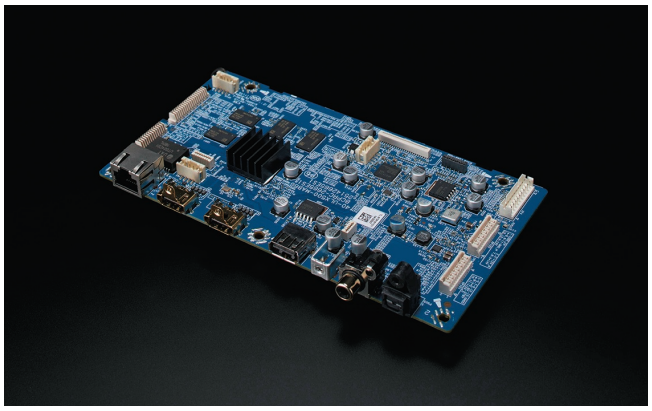
The 1.6 mm-thick chassis base is reinforced with a 3 mm-thick steel plate Rigid Under Base. This Double-Layered Chassis structure provides a low centre-of-gravity and overall rigidity that prevents the transfer of external vibration to the inner chassis, and offers a superior reading of the disc.

Ultra HD Blu-ray Playback

Ultra HD Blu-ray is the latest disc format with up to 3,840 x 2,160 pixels, four times the resolution of 1080p Full HD. In addition to Ultra HD Blu-ray, the UDP-LX500 is compatible with regular Blu-ray™, DVD, SACD, and audio CD, so you can enjoy the highest video resolution, as well as your digital disc collection on a single disc player.

6-Layered Main Circuit Board for High S/N Ratio

A 6-layered IVH is used for the main circuit board to thoroughly eliminate digital noise. This optimises the digital signal wiring and minimises GND impedance, and dramatically improves S/N ratio in audio/video signal processing. The 18 Gbps transmission through the latest HDMI standard becomes even more precise.

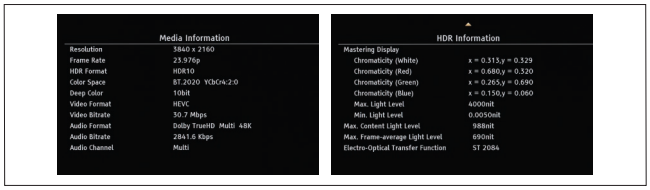


SDR/HDR Preset Mode for Optimal Performance for the Display

In addition to the video parameter “Reference” for reproducing the original master quality, you can select “LCD TV,” “OLED TV,” or “Projector”for the video quality best suited to your display. Additionally, there are SDR/HDR presets for each video parameter, that automatically switches between SDR preset and HDR preset according to the output signal.

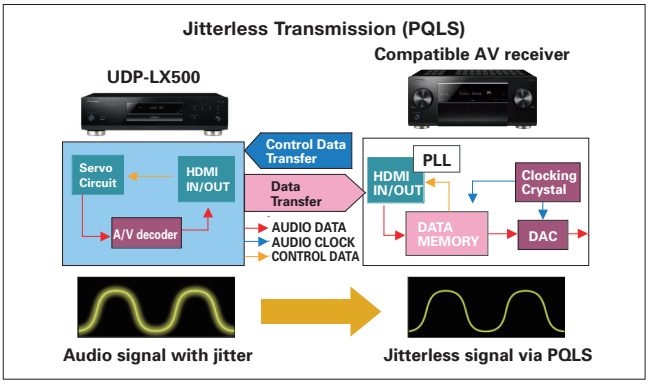
Disc Information On-Screen Display

You can display the disc information on your screen by pressing and holding the remote control’s DISPLAY button. In addition to the playing disc’s details, you can easily check mastering information such as MaxFALL (Maximum Frame Average Light Level) and MaxCLL (Maximum Content Light Level) available on some HDR content, as well as HDMI output information.



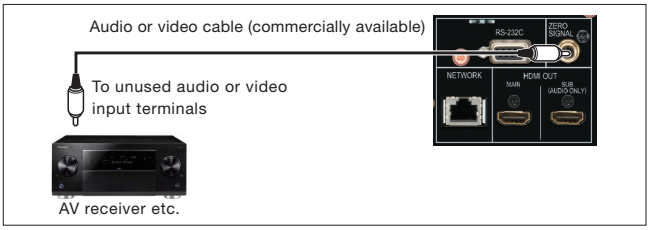
PQLS Jitter-less Sound Transmission

With the precision quartz controller on a compatible AV receiver, Pioneer's PQLS (Precision Quartz Lock System) eliminates distortion caused by timing errors. It controls the amount of audio signals from the AV receiver to the UDP-LX500, giving the best possible digital-to-analogue conversion. UDP-LX500 supports PQLS 2ch Audio, Multi-Surround, and Bit-stream.



Zero Signal Terminal

The Zero Signal Terminal is a Pioneer-original feature dedicated to tuning audio and video quality without signal transmission. By connecting the Zero Signal Terminal with the audio/video input terminal of an AV receiver etc., the reference level (GND) of the audio/video signals is aligned between the two devices, and the potential difference is suppressed, allowing a precise and high-quality signal transmission.



Note: Specifications and design subject to change without notice.