

About how digital audio formats are output

Setting	Bitstream		PCM		Reencode		
Method of conversion	Only the primary audio (the main sound for movies, etc.) is output. The secondary audio and interactive audio are not output.		The primary audio, secondary audio and interactive audio are converted into PCM audio and output simultaneously.		The primary audio, secondary audio and interactive audio are converted into PCM audio then converted again into Dolby Digital audio or DTS audio and output simultaneously. ¹		
Output terminal(s)	HDMI OUT terminal	DIGITAL OUT terminal	HDMI OUT terminal	DIGITAL OUT terminal	HDMI OUT terminal	DIGITAL OUT terminal	AUDIO OUTPUT terminal
Audio type							
Dolby Digital	Dolby Digital	Dolby Digital	PCM 5.1ch				
Dolby Digital Plus	Dolby Digital Plus	Dolby Digital	PCM 7.1ch		Dolby Digital	Dolby Digital	
Dolby TrueHD	Dolby TrueHD	Dolby Digital	PCM 7.1ch				
DTS Digital Surround	DTS Digital Surround	DTS Digital Surround	PCM 5.1ch				
DTS-HD High Resolution Audio	DTS-HD High Resolution Audio	DTS Digital Surround	PCM 7.1ch	PCM 2 ch ²	DTS Digital Surround	DTS Digital Surround	2 ch ²
DTS-HD Master Audio	DTS-HD Master Audio	DTS Digital Surround	PCM 7.1ch				
PCM	PCM 7.1ch	PCM 2 ch ²	PCM 7.1ch		Dolby Digital	Dolby Digital	
AAC	AAC ²	AAC ²	PCM 2 ch		AAC ²	AAC ²	
SACD (DSD)	DSD ³	PCM 2 ch ⁴	PCM 5.1ch	PCM 2 ch ⁴	PCM 5.1ch	PCM 2 ch ⁴	2 ch ⁵

1. If there is no secondary audio or interactive audio, depending on the disc the signals may be output without being re-encoded.
2. For multi-channel audio, the sound is converted into PCM 2-channel audio for output.
3. When **Resolution** is set to **480p**, or when it is set to **Auto** and the connected device supports only 480i/480p, the DSD multi-channel audio of SACDs is output in PCM multi-channel even if **HDMI Audio Out** is set to **Bitstream** (page 39).
4. When **HDMI Audio Out** is set to **Bitstream** or **Reencode**, sound does not produced (page 41).
5. Depending on the settings, for DSD multi-channel audio, 2 channels are output on the front left and right.



Note

- Depending on the disc, the number of channels may differ.
- Depending on the connected HDMI device, the HDMI output audio and number of channels may differ.
- The HDMI output audio and number of channels may differ when **Resolution** is set to **480p**, as well as when set to **Auto** if the connected device only supports 480i/480p.
- Three types of audio are recorded on BD video discs.
 - Primary audio: The main sound.
 - Secondary audio: Additional sound added supplementarily, such as comments by directors, actors, etc.
 - Interactive audio: Sounds such as clicks heard when operations are performed. The interactive audio differs from disc to disc.

Specifications

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Model			UDP-LX500
Type			UNIVERSAL DISC PLAYER
Rated voltage			AC 120 V (For North American models) AC 110 V to 240 V (For others)
Rated frequency			50 Hz/60 Hz
Power consumption			28 W
Power consumption (standby)			0.4 W (For North American models) 0.45 W (For others)
Power consumption (Network Standby on)			1.2 W (For North American models) 1.3 W (For others)
Weight			10.3 kg (22.7 lb)
External dimensions (including projecting parts)			435 mm (W) x 118 mm (H) x 337 mm (D) 17 ¹ / ₈ in. (W) x 4 ⁵ / ₈ in. (H) x 13 ¹ / ₄ in. (D)
Tolerable operating temperature			+5 °C to +35 °C
Tolerable operating humidity			5 % to 85 % (no condensation)
Output terminals	HDMI		2 set, 19-pin: 5 V, 250 mA
	Audio outputs	2-channel (left/right)	1 set, RCA jacks
		Audio output level	200 mVrms (1 kHz, -20 dB)
		Frequency response	4 Hz to 88 kHz (192 kHz sampling)
	Digital audio outputs	Coaxial	1 set, RCA jacks
		Optical	1 set, Optical digital jack
LAN			1 set, Ethernet jack (1000BASE-T/100BASE-TX/10BASE-T)
USB			2 set, Type A



Note

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