

SONY

NW-ZX300/S

Walkman® with Hi-Res Audio

Enjoy truly authentic Hi-Res Audio in a high-performing Walkman® with a compact body. The NW-ZX300 has been engineered for master quality sound, exactly as the artist intended, in a palm-sized design with a sleek, matte glass touch screen for fewer fingerprints. With Bluetooth® connectivity, you'll be carrying studio-quality sound in your pocket wherever you go.¹



Features

Hi-Res Audio for uncompromising sound

Experience digital music to the fullest with Hi-Res Audio. By capturing music at a higher rate than CD and increasing both audio samples per second and the bitrate accuracy of each sample, Hi-Res Audio offers an uncompromised rendition of an artist's music. Savor every breath and subtle movement for a truly emotional experience.

11.2 MHz Direct Stream Digital (DSD) playback for Hi-Res Audio

Enjoy studio-quality sound thanks to the Direct Stream Digital (DSD) audio codec—designed specifically for Hi-Res Audio. This 1-bit format operates at a far higher frequency than conventional PCM digital audio, resulting in a more natural, and intensely detailed sound. The result is clearer, crisper, Hi-Res Audio quality.¹

S-Master HX™ digital amplifier: utmost sonic purity

Using a simplified and fully digital signal path, S-Master HX™ reproduces the subtleties and wide frequency range of high resolution formats. Unlike conventional amplifiers, it maintains the digital signal until right before the speaker output, eliminating distortion.

DSEE HX™ restores all your compressed music files

Go beyond CD quality. DSEE HX™ builds on our proprietary DSEE™ technology, upscaling compressed audio files to a level that's closer to Hi-Res Audio. By restoring the subtleties of the original recording that are lost during the compression process, DSEE HX™ delivers a rich, studio-quality audio experience for all your music.

Aluminum-milled frame resists noise

A rigid aluminum-milled frame provides strong resistance to electrical noise for clear, stable sound.

Balanced connection

The NW-ZX300 Walkman® features a balanced standard plug, designed for the new 0.17" balanced connection cable. This supplies compatible headphones with fully discrete left and right channels, unlike conventional headphones that share a ground wire. The result is far better external noise suppression and improved stereo imaging, as well as more headroom for powerful sound delivery.

Film capacitor for wider acoustics

Higher-quality film capacitors contribute to more efficient circuit-board design and better sound quality. These film capacitors also supply voltage with a linear response across frequencies, resulting in reduced distortion and noise on everything you listen to.

FT CAP (high-polymer capacitor)

We spent 3 years developing the FT CAP with a singular focus on delivering powerful sound. Its large capacity means it can deliver reliable and clean voltage. This ensures well-defined and immensely powerful bass notes are delivered to the headphone output.

High-quality sound with lead-free solder

A high-quality solder has been used for the circuit board and S-Master HX™ full digital amplifier CXD-3778GF. Applying the solder to the rear of the S-Master HX™ amplifier provides a more efficient electric connection, contributing to clearer sound and vocals.

Highest-quality BLUETOOTH® wireless streaming: LDAC

Enjoy your music in higher-than-CD quality with LDAC wireless audio transmission. LDAC uses a conventional Bluetooth® wireless connection¹, but transfers at a maximum data transfer rate up to 990 kbps—approximately three times that of other audio profiles. It's the best way to experience wireless audio, with compatible Bluetooth® wireless speakers and headphones.

USB DAC Function for higher-quality music

SONY

Experience the great sound quality of the NW-ZX300 as a USB Digital-Analog Converter (DAC) for your PC or Mac computer. When connected, activated, and using the supplied USB cable, the NW-ZX300 replaces your computer's regular sound processing with its own highly tuned processing hardware. Enjoy premium sound quality, whether you're at home or in the office, commuting, or in a coffee shop.

MQA™ support for lossless-quality music

MQA™ (Master Quality Authenticated) is a new audio format designed to compress large, studio-quality files without audible loss, for a range of different devices. Already supported by a growing number of premium online music retailers, it's yet another way to enjoy Hi-Res Audio on your NW-ZX300.

Matte glass screen

A touch-sensitive matte glass screen allows smooth fingertip control with less fingerprints.

Intuitive side key

The simple, near instinctive side-key control enables you to control your music with ease.

Listen longer with improved battery life. ²

Never run out of power when you're on the move. The NW-ZX300 holds enough charge for up to 30 hours of 128 kbps MP3 playback, or up to 26 hours of 96 kHz/32 bit FLAC Hi-Res Audio playback¹, so you don't have to worry about finding a charger when you're out and about.

Expandable storage for endless playlists

In addition to the integrated 64 GB memory³, there's also room for a microSD card, so you can take even the biggest music collections on the go.

Specifications

Audio	
Audio Power Output	50mW+50mW (High Gain) Maximum Power Output (JEITA 16Ω/mW)) Headphone Out (Balanced standard-jack): 200mW+200mW(High Gain) (JEITA 16Ω/mW))
Audio Format(s) Supported	MP3 (mp3.): 32 to 320kbps (Supports variable bit rate (VBR)) at 32, 44.1 and 48 kHz WMA: 32-192 kbps (Supports variable bit rate (VBR)) at 44.1 kHz FLAC: 16, 24 bit at 8 and 384kHz WAV (.wav): 16, 24, 32bit(Float/Integer) at 8 and 384kHz AAC (.mp4, .m4a, .3gp): 6-320kbps at 8 and 48kHz HE-AAC (.mp4, .m4a, .3gp): 32-144kbps at 8 and 48kHz Apple Lossless (.mp4, .m4a): 16, 24bit at 8 and 384kHz AIFF (.aif, .aiff, .afc, .aifc): 16, 24, 32bit at 8 and 192kHz DSD (.dsf, .dff): 1bit at 2.8224, 5.6448, 11.2896 MHz APE (.ape): 8, 16, 24bit at 8 and 192kHz (Fast, Normal, High) MQA (.mqa.flac): Supported <small>*Sampling frequency may not correspond to all encoders. Copyright protected files cannot be played back. *Non-standard bit rates or non-guaranteed bit rates are included depending on the Sampling frequency. Files that are 4 GB (APE is 2GB) or larger cannot be played back. *This product recognizes audio sources exceeding CD quality (44.1 kHz/16 bit quantization) and DAT quality (48 kHz/16 bit quantization) as High-resolution Audio. The "HR" symbol is displayed for high-resolution audio sources.</small>

SONY

Frequency Response	Headphone Out (Stereo mini-jack): 20 to 40,000 Hz (when playing data file, single signal measurement)
Audio Features	
Play Mode	Shuffle Playback/ Repeat Off/ Repeat 1 Song/ Repeat All Playback Range(All Range / Selected Range)
Sound Modes	Direct Source (Direct) 10Band equalizer / Tone control (Feature exclusive) DSEE HX DC Phase Linearizer Dynamic Normalizer
Bluetooth	
Bluetooth® Technology	Version 4.2
Frequency Range	Frequency band: 2.4 GHz band (2.4000 GHz - 2.4835 GHz)
Modulation Method	FHSS
Supported Audio Format(s)	Supported Codecs (Transmission): SBC, LDAC, aptX, aptX HD Supported Codecs (Reception): SBC, LDAC, AAC
Bluetooth Feature & Device / Profile	
A2DP	Yes
AVRCP	Yes
Convenience Features	
Multiple Language Display	German / English / Spanish / French / Italian / Polish / Portuguese / Russian / Turkish / Japanese / Korean / Simplified Chinese / Traditional Chinese
Display	
Display Technology	TFT color display with white LED-backlight Capacitive touch screen
Screen Size	3.1 inch (7.8 cm) WVGA (800 x 480 Pixels)
Hardware	
Interface	Hi-Speed USB (USB 2.0 compliant) Stereo mini-jack, Balanced standard-jack WM-PORT (multiple connecting terminal): 22 pins
Memory	
External Memory	microSD microSDHC microSDXC
Memory Size	64GB
User Memory Capacity (Approx.)	Approx. 55.93 GB = 60,055,519,232(byte) *Available capacity may vary. A portion of the memory is used for data management functions.
Operating Conditions	
Operating Temperature	41 °F to 95 °F (5 °C to 35 °C)
NFC	
Type	Active type(for reader and writer), Tag Type
Power	
Battery Charging (Approx)	USB-based charging: Approx. 5.5 hours

Battery Life (Approx)	MP3 @128 kbps = 30 Hrs.(Stereo mini-jack) , 25 Hrs. (Balanced standard-jack)
	AAC @256kbps = 27 Hrs.(Stereo mini-jack) , 23 Hrs. (Balanced standard-jack)
	FLAC @96 kHz/24 bit = 26 Hrs.(Stereo mini-jack) , 23 Hrs. (Balanced standard-jack)
	FLAC @192 kHz/24 bit = 23 Hrs.(Stereo mini-jack) , 20 Hrs. (Balanced standard-jack)
	DSD @ 2.8224MHz/1 bit = 19 Hrs.(Stereo mini-jack) , 13 Hrs. (Balanced standard-jack)
	DSD @5.6448MHz/1bit)= 15 Hrs.(Stereo mini-jack) , 12 Hrs. (Balanced standard-jack)
	DSD @11.2896MHz/1bit)= 13 Hrs.(Stereo mini-jack) , 10 Hrs. (Balanced standard-jack)
	Bluetooth: = 25 Hrs. (SBC, Connection), 14 Hrs. (LDAC, Auto)
	The values shown in this topic are the approximate battery life when content is played continuously at the default settings. Even if the player is turned off for an extended period, a small amount of battery power is still consumed. Battery life may vary depending on volume setting, conditions of use and ambient temperature. The battery is consumed considerably when the screen is on. The battery life may become about 55% shorter when some of the sound quality settings are active. A Bluetooth connection will shorten the battery life by up to 65% depending on the following conditions. Format of the content. Settings of the connected device.
Power Type	Built-in Rechargeable lithium-ion Battery USB power (from a computer via a USB connector of the player)
System Requirements	
Operating System	Sony original OS
Weights and Measurements	
Dimensions (Approx.)	2.26 x 4.71 x 0.59 inches (57.3 x 119.5 x 14.8 mm) w/h/d, projecting parts not included 2.28 x 4.75 x 0.59 inches (57.7 x 120.4 x 14.9 mm)
Weight (Approx.)	5.54 oz (157 g)
Accessories	
Supplied Accessories	Walkman (1) USB cable (1) Startup Guide Instruction Manual Headphones and a microSD card are not supplied with the Walkman.

1. Interoperability and compatibility among Bluetooth® devices vary

2. Actual performance varies based on settings, environmental conditions, and usage. Up to 30 hours (128 kbps MP3 playback) or up to 26 hours (96 kHz/32 bit FLAC High-Resolution).

3. 1 GB equals 1 billion bytes, a portion of which is used for data management functions.

© 2017 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Sony and the Sony logo are registered trademarks of Sony Corporation. Bluetooth is a trademark of Bluetooth SIG, Inc. All other trademarks are trademarks of their respective owners. Features and specifications are subject to change without notice.

Updated: July 30, 2018