

# SONY

## NW-WM1Z

### Signature Series Portable Digital Music Player

Reach the pinnacle of portable listening with Sony's Signature Series Hi-Res Walkman that combines years of experience in digital amplification with our relentless pursuit of brilliant audio quality. From the groundbreaking digital amplifier, to the best-in-class gold-plated OFC chassis and Kimber cables, each Signature Series component elevates the high-resolution sound experience from one you listen to, to one you



#### Bullets

---

- Gold plated, oxygen-free copper chassis design
- 32bit 384kHz PCM bit-to-bit playback and Native DSD support (up to 11.2MHz)
- Supports balanced (4.4mm) and unbalanced (6.3mm, 3.5mm) connections
- Engineered with 4-wire braided Kimber Kable®
- 256 GB built-in memory and micro SD memory card slot
- Up to 33-hours of High-Resolution music playback<sup>3</sup>
- 4.0" touchscreen with simple, intuitive navigation and side-key control
- Enjoy near hi-res quality wireless sound via Bluetooth with LDAC™<sup>1</sup>
- Make compressed audio sound brilliant by restoring lost audio fidelity with DSEE HX™
- Large low-phase noise quartz oscillator precision clock reduces timing jitter

#### Features

---

##### **Pure sound from a gold plated, oxygen-free copper chassis design**

Discover the functional beauty of oxygen-free copper. The Signature Series Hi-Res Walkman is fully encased in a high-grade gold-plated oxygen-free copper chassis. Widely used in instrument manufacturing, the copper lends the player its unique natural, acoustic sound. Its conductivity and raw strength reinforce the Walkman® with unrivalled audio performance.

##### **Supports a variety of audio formats**

Practically every Hi-Res file format has met its match with 32bit 384kHz PCM bit-to-bit playback and Native DSD™ support up to 11.2 MHz. Whatever the acronym – from PCM to DSD™ and beyond – the Sony Signature Series Hi-Res Walkman is prepared to play it flawlessly.

##### **Expanded compatibility with headphones**

The Signature Series Hi-Res Walkman features the new JEITA stereo balanced headphone jack and supports balanced (4.4mm) and unbalanced (6.3mm, 3.5mm) connections for maximum sound performance and increased output.

##### **Engineered with 4-wire braided Kimber Kable®**

Made using advanced braiding techniques, the four wire braided cables engineered with KIMBER KABLE® are handcrafted to seamlessly handle high power and deliver ultimate sound performance.

##### **Enjoy 265GB built-in memory<sup>2</sup>, plus Micro SD memory card slot**

The Signature Series Hi-Res Walkman packs in 256GB of built-in file memory<sup>2</sup>, so that you never run out of music. Plus, never run out of space for your music library and store files in the highest quality with the Micro SD slot.

##### **Up to 33-hours of High-Resolution music playback<sup>3</sup>**

Keep the music playing as long as you are, with up to 33 hours of non-stop High-Resolution Audio playback<sup>3</sup>.

##### **4.0" touchscreen with simple, intuitive navigation and side-key control**

The fully responsive touchscreen and classic interface design have been tailored to meet the needs of the most passionate audiophiles. Simple side-key control enables you to control your music with ease.

##### **Enjoy near hi-res quality wireless sound via Bluetooth with LDAC™<sup>1</sup>**

The Sony Bluetooth® LDAC™ codec takes your music streaming to a new level<sup>1</sup>. With 3x that data transmitted, LDAC provides and enhanced wireless listening experience with near Hi-Res quality.

##### **Make compressed audio sound brilliant by restoring lost audio fidelity with DSEE HX™**

New DSEE HX builds on our proprietary DSEE technology, upscaling compressed audio files to a level that's closer to High-Resolution 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.

## Large low-phase noise quartz oscillator precision clock reduces timing jitter

Timing jitter degrades the digital audio signal, creating an unevenness and introduces distortion into the sound. A large, low-phase noise oscillator precision clock provides a timing signal to all the parts of the digital audio system, so each process can be triggered at the right moment.

### Specifications

<b>Audio</b>		AVRCP	Yes
Audio Power Output	Stereo mini-jack : 60mW + 60mW(non CEW, High Gain) 1.6~4.2mW (CEW) Balanced standard-jack : 250mW + 250mW(non CEW, High Gain) 1.6~4.2mW (CEW)	<b>BT Spec.</b>	
		Version	Version 4.2
		<b>Convenience Features</b>	
		Multiple Language Display	German/ English/ Spanish/ French/ Italian/ Polish/ Portuguese/ Russian/ Turkish/ Japanese/ Korean/ Simplified Chinese/ Traditional Chinese
		<b>Display</b>	
		Display Technology	TFT color display with white LED-backlight, Capacitive touch screen
		Screen Size	4.0" (10.2 cm) / FWVGA (854 x 480 Pixels)
		<b>Hardware</b>	
		Interface	Stereo mini-jack, Balanced standard-jack Hi-Speed USB (USB 2.0 compliant) WM-POR (multiple connecting terminal): 22 pins
		<b>Memory</b>	
		Memory Size	256 GB
		User Memory Capacity (Approx.)	247,612,538,880 byte (230.60 GB)
		<b>Operating Conditions</b>	
		Operating Temperature	41 °F to 95 °F (5 °C to 35 °C)
		<b>Power</b>	
		Power Type	Built-in Rechargeable lithium-ion Battery USB power (from a computer via a USB connector of the player)
		<b>Video</b>	
		Video Format(s) Supported	AVC(H.264/AVC): MP4 file format, 20 Mbps bitrate, 30 fps frame rate, 1920x1080 max  MPEG4: 20 Mbps bitrate, 30 fps frame rate, 1920x1080 max  WMV9: ASF file format, 20 Mbps bitrate, 30 fps frame rate, 1920x1080 max
		<b>Weights and Measurements</b>	
		Dimensions (Approx.)	2.58 x 4.86 x 0.79 inches (65.3 mm x 123.4 mm x 19.9 mm) (w/h/d, projecting parts not included) 2.87 x 4.89 x 0.79 inches (72.9 mm x 124.2 mm x 19.9 mm)
		Weight (Approx.)	16.1 oz (455 g)
		<b>Accessories</b>	
Audio Format(s) Supported	MP3 (MPEG-1 Layer3): 32 to 320kbps (Supports variable bit rate (VBR)) at 32, 44.1 and 48 kHz  WMA: ASF file format, 32-192 kbps (Supports variable bit rate (VBR)) at 44.1 kHz  FLAC: 16, 24 bit at 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192, 352.8, 384 kHz  Linear PCM: Wave-Riff file format, wav file extension, 16, 24, 32 (Float/Integer) at 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192, 352.8, 384 kHz  AAC: MP4, mp4, m4a, .3gp file extension, 16 to 320 kbps ((Supports variable bit rate (VBR)) at 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48 kHz  HE-AAC: MP4, mp4, m4a, .3gp file extension, 32 to 144 kbps at 8, 11.025, 12, 16, 22.05, 24, 32, 44.1 and 48kHz  Apple Lossless: MP4, m4a, .mp4 file extension, 16 to 24 bit at 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192, 352.8, 384 kHz  AIFF: 16-24-32 bit at 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192, 352.8, 384 kHz  DSD: 1 bit at 2.8224 MHz, 5.6448, 11.2896 MHz  * 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.		
Frequency Response	20 to 40,000 Hz (when playing data file, single signal measurement)		
<b>Audio Features</b>			
Play Mode	Normal / Repeat / Shuffle / Shuffle&Repeat / Repeat 1 Song Playback Range(All Range / Selected Range)		
<b>Bluetooth</b>			
Frequency Range	2.4 GHz band (2.4000 GHz - 2.4835 GHz)		
Modulation Method	FHSS		
<b>Profile</b>			
A2DP	Yes		

# SONY

Supplied Accessories	Walkman (1) USB cable (1) Wrist strap (1) Startup Guide (1) Instruction Manual (1) Leather case (1) (31.9 x 52.0 x 11.5 inches (81 mm x 132 mm x 29 mm)) Headphones and a microSD card are not supplied with the Walkman.
----------------------	---

1. Connected Bluetooth device must support LDAC format. Interoperability and compatibility among Bluetooth® devices vary.

2. 1 GB equals 1 billion bytes, a portion of which is used for data management functions.

3. Actual performance varies based on settings, environmental conditions, and usage.

© 2016 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Sony, Walkman, LDAC, DSD, DSEE HX and its logos are trademarks or 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: September 9, 2016