

SONY

Press Release

**Enjoy Ultimate Sound Quality in High-Resolution Audio
with Walkman® NWZ-ZX1 from Sony**



Walkman® NWZ-ZX1

Hong Kong, January 9, 2014 – Sony is proud to announce the launch of the Walkman® NWZ-ZX1, which supports for High-Resolution Audio¹ to offer six times the audio quality than what a CD² can deliver by utilizing its proprietary audio technologies. This high-performance portable music player is designed especially for those who demand the best in music playback quality on the move, allowing them to enjoy music as if right into the recording studio or concert.

Powered by an OMAP™4 Cortex-A9 1GHz dual-core processor, the Walkman® NWZ-ZX1 has the latest S-Master HX digital amplifier built in, which helps to reduce distortion and noise at all frequency ranges and is optimised for High-Resolution Audio. Combined with DSEE HX (Digital Sound Enhancement Engine) technology that upgrades³ the audio quality of existing compressed sound files to near High-Resolution Audio quality and ClearAudio+ that brings together the expertise in digital signal processing technologies for enjoying high quality sound, ensuring realistic audio playback of ground-shaking lows to delicate highs, consumers will be hearing music just as the artist intended.

¹ ‘High-Resolution Audio sound sources’ generally refer to PCM- or DSD-format sound sources with information volume (in terms of sampling frequency or bit rate) that exceeds CD (44.1 kHz/16 bit) or DAT (48 kHz/16 bit).

² Information volume equivalent to approx. 3 times or 6 times that of CD format when at 96 KHz/24 bit or 192 KHz/24 bit, respectively.

³ Extendable to a maximum of 192 KHz/24 bit equivalent

The Walkman® NWZ-ZX1 has an aluminum body combined with brass-plated components for a very clean and sleek design. A molded base at its rear acts as an amp block to house all electrical components necessary for high-quality music reproduction. In addition, its leather-effect rear rubber grip adds comfort and stability when holding it in one's hands.

Besides giving the Walkman® NWZ-ZX1 its well-crafted and industrial design, high-grade aluminum alloy was chosen for its rigidity, and carving out the body from a single piece of metal minimises any unwanted inference and electrical noise to deliver stable high-quality 196KHz/24bit audio in various formats, including FLAC, Apple Lossless and AIFF.

Additionally, Sony has also taken into consideration other factors that may impede on audio quality. The S-Master HX digital amplifier uses a film capacitor with good thermal properties for its audio output stage filter to reproduce the tonal nuances of string instruments and vocals and vibrant overtones of woodwind instruments. Besides incorporating a larger, higher-quality OS-CON polymer capacitor typically not used in mobile devices, the battery connection of the Walkman® has also been strengthened with protection circuits and special lower-resistance cables to deliver deep and booming bass notes and explosive mid- to high-range notes.

A common source for sound distortion, Sony has opted to design a larger headphone jack to help reduce wear and tear damage over time by reducing contact resistance while still stabilising contact point pressure.

The Walkman® NWZ-ZX1 combines the audio quality that the Walkman® brand is known for with the versatility of the Android platform. Running on Android 4.1, users can download apps via Google Play to fully explore the entertainment potential of the Walkman®. A host of connectivity features such as Wi-Fi, Bluetooth and NFC for One-touch listening, giving users unlimited options when playing music either at home, outdoors or any other location – with just a simple wireless pairing of compatible devices.

The flagship Walkman® NWZ-ZX1 comes with 128GB of built-in memory capable of storing High-Resolution Audio content equivalent to approximately 800 songs⁴. Viewing of the large library of high-quality music files is made easy with its brilliant 4-inch (854 x 480 pixel) TRILUMINOS Display for mobile touchscreen.

Buttons for playback, pause, song selection and volume have been thoughtfully mapped to be located by the side of the ZX1, allowing users to play audio and video quickly and conveniently. A new dashboard feature for the Music Player application gives users the freedom to choose what content they want to enjoy directly from the screen itself. And when you can't decide on what to listen to, let the SensMe Channels app suggest songs for you instead.

⁴ Converted at FLAC 96 kHz/24 bit; 4 minutes per song

The premium Walkman® NWZ-ZX1 from Sony will be available from mid February 2014 onwards at HK\$5,680.

Order Now

The Walkman® NWZ-ZX1 and special High-Resolution Audio bundling packages are available for pre-ordering from January 9 to February 17, 2014 at all Sony Stores, Sony Store online (www.sony.com.hk/store) and Sony tele-sales hotline at (852) 2345-2966. Details are as follows:

	Price (HK\$)	Premium
NWZ-ZX1	\$5,680	SD card with five songs in High-resolution Audio
NWZ-ZX1 + XBA-H3 High Resolution Audio Earphones Package	\$7,980	
NWZ-ZX1 + MDR-1RMK2 High Resolution Audio Headphones Package	\$7,260	
NWZ-ZX1 + UDA-1 High-Resolution Audio USB DAC Amplifier + SS-HA3 High-Resolution Audio Speaker System Package	\$14,650	
NWZ-ZX1 + UDA-1 High-Resolution Audio USB DAC Amplifier	\$11,010	

Sony Premium Services

Customers who purchase brand new Walkman® NWZ-ZX1 is eligible to purchase Sony Premium Services, which offer you different services and benefits including: (i) extension of product warranty; (ii) 50% discount on value-added services such as system/firmware updates*, delivery service, etc; and (iii) 20% discount to enjoy Sony Studio services. Premium Services Scheme (Walkman® Portable Audio): (i) 1-year local warranty extension: HK\$190, (ii) 2-year local warranty extension: HK\$340. For details of Premium Services, please visit <http://www.sony.com.hk/premiumservices/>.

For customer enquiries, please contact Sony hotline service at (852) 2345-2966.

About Hong Kong Marketing Company

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Key specifications of Sony High Resolution Audio Walkman® NWZ-ZX1

Model		NWZ-ZX1	
Platform		Android™ Version 4.1	
Capacity (User available capacity) ^{*7}		128GB (Approx.113GB) 122,342,834,176 bytes	
Processor		OMAP™ 4 Cortex-A9, 1GHz Dual-Core Processor	
RAM		1GB	
Supported file format			
Music	Audio Formats (Codec)	MP3	Media File format: MP3(MPEG-1 Layer3) file format File extension: .mp3 Bit rate: 32 to 320kbps (Supports variable bit rate (VBR)) Sampling frequency ^{*1} : 32, 44.1, 48kHz
		WMA ^{*2}	Media File format: ASF file format File extension: .wma Bit rate: 5 to 384kbps (Supports variable bit rate (VBR)) Sampling frequency ^{*1} : 8 to 48kHz
		FLAC	Media File format: FLAC file format File extension: .flac Bit depth : 16, 24 bit Sampling frequency ^{*1} : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192 kHz
		Linear PCM	Media File format: Wave-Riff file format File extension: .wav Bit depth : 16, 24 bit Sampling frequency ^{*1} : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192 kHz
		AAC ^{*3}	Media File format: MP4 file format File extension: .mp4,.m4a,.3gp Bit rate: 16 to 320kbps (Supports variable bit rate (VBR)) ^{*4} Sampling frequency ^{*1} : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48kHz
		HE-AAC	Media File format: MP4 file format File extension: .mp4,.m4a,.3gp Bit rate: 32 to 144kbps Sampling frequency ^{*1} : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48kHz
		Apple Lossless	Media File format : MP4 file format File extension: .m4a, .mp4 Bit depth : 16, 24 bit Sampling frequency ^{*1} : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192 kHz
		AIFF	Media File format: AIFF file format File extension: .aif, .aiff, .afc, .aifc Bit depth : 16, 24 bit Sampling frequency ^{*1} : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192 kHz
Video	Video Formats (Codec)	AVC(H.264/AVC)	Media File format: MP4 file format, "Memory Stick" video format File extension: .mp4, .m4v Profile : Baseline Profile/Main Profile/High Profile Level :4

			Bitrate : Max 20 Mbps Frame rate : Max 30 fps Resolution : Max 1920x1080 *5		
Video	Video Formats (Codec)	MPEG-4	Media File format: MP4 file format, "Memory Stick" video format File extension: .mp4, .m4v Profile : Simple Profile/ Advanced Simple Profile Bitrate : Max 20 Mbps Frame rate : Max 30 fps Resolution : Max 1920x1080 *5		
		Windows Media Video 9 *2	Media File format: ASF file format File extension: .wmv Bitrate : Max 20 Mbps Frame rate : Max 30 fps Resolution : Max 1920x1080 *5		
Audio Formats (Codec)	AAC-LC (AVC, MPEG-4)		Bit rate: 32 to 144kbps (Supports variable bit rate (VBR)) *4 Sampling frequency *1 : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48kHz		
	WMA (Windows Media Video 9)		Bit rate: 5 to 384kbps (Supports variable bit rate (VBR)) Sampling frequency *1 : 8-48kHz		
Photo *6	Photo Format (Codec)	JPEG	Media File format: Compatible with DCF 2.0/Exif 2.21 file format File extension: .jpg, .jpeg Profile : Baseline Profile Number of pixels:Max. 6,048 x 4,032 pixels(24,385,536 pixels)		
		PNG	File extension: .png Number of pixels:Max. 2,048 x 2,048 pixels(4,194,304 pixels)		
Maximum recordable number of songs and time (Approx.)			Bitrates	number of songs	recordable time (Approx. H:M)
			128kbps	20000	1,333:20
			1,411 kbps (Linear PCM)	2800	186:40
Playback hours			Bluetooth Off		Bluetooth On
Music	MP3 128kbps		32		23
	Linear PCM 1,411kbps		34		24
	FLAC 96kHz/24bit		25		16
	FLAC 192kHz/24bit		16		7
Video	MPEG-4 384kbps		5		5
Display			Size/resolution: 4.0-inch (10.2 cm) / FWVGA(854 x 480 Pixels)TFT colour display		
Interface			USB: Hi-Speed USB(USB 2.0 compliant) Headphone: Stereo mini-jack WM-PORT: WM-PORT(multiple connecting terminal):22 pins		
Wireless LAN			IEEE 802.11a/b/g/n		

Bluetooth	Communication system: Bluetooth specification version 3.0
Sensor	Accelerometer/ GPS receiver
Speaker / Microphone	Monaural
Output (Headphones)	Frequency response 20 to 40,000 Hz
Sound enhancements	ClearAudio+(On/Off) Equalizer Clear Bass Surround sound DSEE HX(On/Off) Dynamic normalize (On/Off) xLOUD(On/Off) Clear Phase(On/Off)
Power Source	Built-in Rechargeable lithium-ion Battery USB power (from a computer via a USB connector of the player)
Charging Time	USB-based charging: Approx. 3hours
Dimension (W/H/D)	60.7 x 122.8 x 15.3 mm
Mass	Approx. 139g
Operating temperature	5 'C to 35 'C (41 'F to 95 'F)
System Requirements	Windows® 8 Windows® 8 Pro Windows® 7 Starter (Service Pack 1 or later) Windows® 7 Home Premium (Service Pack 1 or later) Windows® 7 Professional (Service Pack 1 or later) Windows® 7 Ultimate (Service Pack 1 or later) Windows Vista® Home Basic (Service Pack 2 or later) Windows Vista® Home Premium (Service Pack 2 or later) Windows Vista® Business (Service Pack 2 or later) Windows Vista® Ultimate (Service Pack 2 or later) Windows® XP Home Edition (Service Pack 3 or later) Windows® XP Professional (Service Pack 3 or later) Mac OS X v10.6 or later ※Windows XP Professional x64 Edition
Supplied Accessories	USB cable (1) Carrying Pouch (1) Spacer (1) Quick Start Guide

Remarks

- *1 Sampling frequency may not correspond to all encoders.
- *2 Copyright protected WMA/WMV files cannot be played back.
- *3 Copyright protected AAC-LC files cannot be played back.
- *4 Non-standard bit rates or non-guaranteed bit rates are included depending on the sampling frequency.
- *5 These numbers indicate the maximum resolution of playable video, and do not indicate the player's display resolution.
- *6 Some photo files cannot be played back, depending on their file formats.
- *7 Available capacity may vary. A portion of the memory is used for data management functions.

“WALKMAN” specifications and designs are subject to change without notice.