



Press Release

Sony Expands High-Resolution Audio Product Line-up for an Ultimate Listening Experience
Flagship Hi-Res Audio Walkman® NW-ZX2, Wireless Headphones MDR-1ABT and Headphone DAC/amplifier PHA-1A deliver a fully immersive audio experience



Walkman® NW-ZX2

Hong Kong, February 6, 2015 – Sony today introduced new Flagship Hi-Res Audio Walkman® NW-ZX2, Wireless Headphones MDR-1ABT and Headphone DAC/amplifier PHA-1A designed to reproduce the ultimate sound quality without restrictions or set-up hassles. The new High-Resolution Audio products let music lovers enhance their mobile or computer listening experience.

Sony has made it possible to enjoy music at a higher sound quality by applying unique audio technologies that bring listeners closer to the spirit and intent of the artist's original performance. Thanks to Sony's new technology LDAC™ (low latency codec), users can now enjoy high quality wireless audio via Bluetooth®. With three times the data¹ transmitted, LDAC provides an enhanced wireless listening experience for all your music. The new products further the desire to equip consumers with the best portable products possible to enjoy a fully immersive, Hi-Res Audio experience from practically any location. These technologies, combined with one-touch listening, help facilitate easy connectivity (pairing) via wireless Bluetooth® technology, result in unprecedented flexibility to access high quality sound on-the-go.

Hi-Res Audio Walkman® NW-ZX2

Experience High-Resolution Audio like never before with the Walkman® NW-ZX2, capable of reproducing master quality recordings just as the artists originally intended. The S-Master™ HX digital amplifier, uniquely developed for Hi-Res Audio playback, reduces distortion and noise while reproducing wide frequency response for a clearer acoustic experience. It is also equipped with

¹ Comparing A2DP, SBC (328Kbps & 44.1kHz)

DSEE HX™ technology which upscales MP3 and other compressed music files so users can enjoy them in higher sound quality.

The NW-ZX2 supports digital music files up to 192 kHz/24 bit and compatible file formats such as MP3, WMA, AAC, FLAC, AIFF, WAV, ALAC and DSD.² It also comes with 128GB of built-in memory, as well as micro SD card slot, Wi-Fi and a large capacity Lithium-ion battery that provides up to 60-hours³ of music playback per charge.

Sporting a frame with rounded sides carved out of aluminum alloy, the Walkman® NW-ZX2 features a striking design with a highly-rigid case. Adoption of the gold-plated copperplate in the structure has resulted in an extremely stable ground due to its low electric resistivity. The powerful bass and the improved sense of stereo have also been realised due to a number of audio components, such as the enhancement of power supply through the use of electric double layer capacitors, OS-CON and large capacity Li-ion battery. Other refinements that also contribute to the high-quality sound are thick-film copper-layer PCBs, OFC cables, high-purity lead-free solder. These enable the NW-ZX2 to achieve higher sound resolution by reducing impedance.



MDR-1ABT

Wireless Headphones MDR-1ABT

Following on the success of the MDR-1A headphones, the new MDR-1ABT headphones is the ideal way to showcase high quality sound on-the-go. In addition to delivering outstanding sound quality, it offers remarkable comfort with ergonomic ear pads and a wraparound design for improved fit which also prevents sound leakage.

The lightweight and responsive aluminum coated Liquid Crystal Polymer Film diaphragms also provide the rigidity necessary for balanced sound reproduction, while minimising coloration across the audio spectrum. The MDR-1ABT headphones offers hands-free talk with echo cancellation and noise suppression that enables clear sound quality for hands-free calls on compatible smartphones.

² Linear PCM conversion playback.

³ MP3 at 128kbps

Additionally, they feature touch sensor controls with NFC to allow users to easily control music from the side of the headphones without having to connect with wires or use set-up codes.



PHA-1A

Portable DAC/Headphone Amplifier PHA-1A

Enhance the quality of everything you listen to with the compact Portable DAC/Headphone Amplifier PHA-1A. Simply connect to your compatible digital music device, PC, or smartphones via its USB input to enjoy Hi-Res Audio playback on the go.

The ultimate companion for Walkman® A10 series (NWZ-A17 & NWZ-A15), this easy to use and lightweight PHA-1A is elevates your listening experience, allowing you to bring the highest quality audio with you wherever you go.

Pricing and Availability

Sony Hi-Res Audio Walkman® NW-ZX2 will be launched from February 13, 2015. The Wireless Headphones MDR-1ABT and Portable Headphone Amplifier PHA-1A will be available from April onwards and the prices will be announced at a later time.

Order Now

On February 7 – February 10, 2015, Sony Hi-Res Audio Walkman® NW-ZX2 will be available for pre-ordering at all Sony Stores, Sony Store online (www.sony.com.hk/store) and Sony sales hotline at (852) 2345-2966. Details are as follows:

High-Resolution Audio Models	Prices	Pre-ordering Gifts
Walkman® NW-ZX2	HK\$8,880	- 64GB SD card
Walkman® NW-ZX2, Headphones XBA-Z5 with Headphone Cable MUC-M12SM1 Package	HK\$11,860 (Original price@HK\$14,640)	- Two tickets of Phil Lam’s Music Show on Feb 26, 2015 - Customers placing orders at the Sony Store TST Star Annex will receive 2 vouchers for redemption of movie tickets
Walkman® NW-ZX2 with MDR- Z7 Package*	HK\$11,860 (Original price@HK13,860)	
<p><i>Customers purchasing the Walkman® NW-ZX2 or any package can enjoy a 15% discount offer (\$5,420) for the Headphone DAC/amplifier PHA-3 (original price@\$6,380)</i></p> <p><i>*Customer purchasing the Walkman® NW-ZX2 with MDR-Z7 package can enjoy a special offer of \$500 for the Kimber Kable® Headphone Cable MUC-B12SM1(original price@ \$1,780)</i></p>		

Sony Premium Services

Customers who purchase brand new Walkman® NW-ZX2 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® ZX series): (i) one-year local warranty extension: HK\$590. 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

Hong Kong Marketing Company (HKMC), a division of Sony Corporation of Hong Kong Limited, provides sales, marketing and after sales services for Sony's consumer electronics products as well as broadcast and professional products in Hong Kong and Macau. For more information on Sony's products and services, please visit our website at <http://www.sony.com.hk>.

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Specifications of Sony Hi-Res Audio Walkman® NW-ZX2 :

Model		Walkman® NW-ZX2
High Resolution Audio Capability		
Capacity (User available capacity) ^{*1}	128GB (Approx 113GB)	
External Memory	microSD, microSDHC, microSDXC (card not included)	
Platform	Android™ 4.2Version	
Processor	OMAP™4 Coretex-A9 dual core 1.0 GHz, 1GHz	
RAM	1GB	
Supported file format		
Audio Formats (Codec)	<p>FLAC : Media File format: FLAC ; File extension: .flac ; Bit depth : 16, 24 bit ; Sampling frequency ^{*2} : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192 kHz</p> <p>MP3 : Media File format: MP3 (MPEG-1 Layer3); File extension: .mp3; Bit rate: 32 to 320kbps (Supports variable bit rate (VBR)); Sampling frequency ^{*2} : 32, 44.1, 48kHz</p> <p>WMA ^{*3*4} : Media File format: ASF; File extension: .wma; Bit rate: 5 to 384kbps (Supports variable bit rate (VBR)); Sampling frequency ^{*2} : 8 to 48kHz</p> <p>AAC ^{*4*5*6} : Media File format : MP4 ; File extension : .mp4, .m4a, .3gp ; Bit rate : 16 至 to 320 kbps (Supports variable bit rate (VBR)) ^{*8} ; Sampling frequency ^{*2} : 8,11.025, 12, 16, 22.05, 24, 32, 44.1, 48 kHz</p> <p>Linear PCM : Media File format: Wave-Riff; File extension: .wav ; Bit depth : 16, 24 bit ; Sampling frequency ^{*2} : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192 kHz</p> <p>HE-AAC ^{*5*6} : Media File format: MP4; File extension: .mp4,.m4a,.3gp; Bit rate: 32 to 144kbps (Supports variable bit rate (VBR)) ^{*8}; Sampling frequency ^{*2} : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48kHz</p> <p>Apple Lossless ^{*6} : Media File format: MP4; File extension: .m4a, .mp4 ; Bit depth : 16, 24 bit ; Sampling frequency ^{*2} : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192 kHz</p> <p>AIFF : Media File format: AIFF; File extension: .aif, .aiff, .afc, .aifc ; Bit depth : 16, 24 bit ; Sampling frequency ^{*2} : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192 kHz</p> <p>DSD ^{*7} : Media File format: DSF, DSDIFF; File extension: .dsf, .dff; Bit depth : 1bit; Sampling frequency ^{*2} : 2.8224 MHz, 5.6448 MHz</p>	
Video Formats (Codec)	AVC (H.264 / AVC) : Media File format: MP4, “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 ^{*9} MPEG-4 : Media File format: MP4, “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 ^{*9} Windows Media Video 9 : Media File format: ASF; File extension: .wmv; Bitrate : Max 20 Mbps; Frame rate : Max 30 fps; Resolution : Max 1920x1080 ^{*6}
Audio Formats (Codec)	AAC-LC (AVC, MPEG-4) : Bit rate: 32 to 144kbps (Supports variable bit rate (VBR)) ^{*8} , Sampling frequency ^{*2} : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48kHz WMA (for Windows Media Video 9) : Bit rate : 5 to 384kbps (Supports variable bit rate (VBR)) ; Sampling frequency ^{*2} : 8-48kHz
Photo Format (Codec) ^{*10}	JPEG : Media File format : Compatible with DCF 2.0 / Exif 2.21 ; File extension : .jpg, .jpeg ; Profile : Baseline ; Number of pixels : 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)
Continuous Playback Time	MP3 128kbps: approx. 60Hrs; Linear PCM 1411kbps: approx. 61Hrs; FLAC 96kHz/24bit: approx. 43Hrs; FLAC 192kHz/24bit: approx. 33Hrs; DSD 2.8224MHz/1bit: approx. 22Hrs; DSD 5.6448MHz/1bit: approx. 16Hrs
Continuous Playback Time (Movie)	MPEG-4 384kbps : approx. 9Hrs
Display	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
Output (Headphones)	Frequency response 20 - 40,000 Hz
Sound enhancements	ClearAudio+(On/Off) / equalizer / Clear Bass / Surround sound / DSEE HX(On/Off) / Dynamic Normalizer (On/Off)
Power Source	Built-in Rechargeable lithium-ion Battery / USB power (from a computer via a USB connector of the player)
Charging Time	Approx. 4.5hours (USB-based charging)
Dimensions	65.1 x 131.2 x 18.5 mm
Mass	235g

System Requirements	Windows® 8 / Windows® 8 Pro / Windows® 7 Starter (Service Pack 1 / Windows® 7 Home Premium (Service Pack) / Windows® 7 Professional (Service Pack 1) / Windows® 7 Ultimate (Service Pack 1) / Windows Vista® Home Basic (Service Pack 2) / Windows Vista® Home Premium (Service Pack 2) / Windows Vista® Business (Service Pack 2) / Windows Vista® Ultimate (Service Pack 2) / Windows® XP Home Edition (Service Pack 3) / Windows® XP Professional (Service Pack 3) / Mac OS X v10.6or later ※Windows XP Professional x64 Edition
Supplied Accessories	USB cable (1), Leather Carrying case (1), Spacer (1), Quick Start Guide

Remarks


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

Specifications of Sony Wireless Headphones MDR-1ABT:

Series	1A/XBA
Model	MDR-1ABT
HI-RES	
Wearing Style	Around-Ear Headband
Acoustic Type	Closed
Driver Unit	40mm(Dynamic)
Frequency Response	4 Hz - 100,000Hz
Sensitivity	98 dB/mW (1kHz)
Impedance (at 1 kHz)	24Ω
Cord	Approx. 1.2m single-sided (detachable)
Plug Type	Gold-plated L-shaped Stereo Mini
Lin. input mic. & remote	All Direction Electret Condenser Microphone
Bluetooth® Technology	Version3.0 Output: Bluetooth power class2
NFC	Yes
Effective Range	Line of sight approx.30ft (10m)
Frequency Range	2.4GHz band(2.4000GHz-2.4835GHz)
Modulation Method	FHSS
Interface	A2DP, AVRCP, HFP, HSP
Supported Audio Format(s)	SBC, AAC, apt-X, LDAC
Supported Content Protection	SCMS-T
Frequency Range(A2DP)	20Hz - 20,000Hz (44.1kHz Sampling) / 20Hz - 40,000Hz (LDAC 96kHz Sampling, 990kbps)
Supplied Accessories	Approx. 1.5m Headphone Cable(1) Approx. 0.5m micro USB cable(1) Carring Pouch(1) Quick Start Guide(1) Reference Guide(1)
Weights (Approx.) *excl.cable erights	Approx. 300g
Battery Life	Continuous music playback time: Max. 30 Hours; Continuous communication time: Max. 26 Hours; Waiting Time: Max. 200 Hours

Charging Time	Approx. 4 Hours USB Charging
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Specifications of Sony High Resolution Audio Headphone DAC/amplifier PHA-1A:

Model	PHA-1A
High Resolution Audio Capability	
Decoding Format	PC, WM, Xperia, iPhone, iPad, iPod
Frequency Response	10-100kHz
Sampling frequency/ bit	Maximum 192kHz/24bit
Impedance	8 Ω - 600 Ω
Maximum output	Approx. 148mW+148mW (8ohm, 10% distortion), Approx. 80mW+80mW (32ohm, 1% distortion), Approx. 16.4mW+16.4mW (300ohm, 10% distortion)
Output (s)	Stereo mini jack (headphones)
Input(s)	Digital (micro USB, USB Type A), DC in (USB Micro B)
Volume Control	Rotary
Gain Control	NORMAL/HIGH
Operating Environment	<p>Compliant OS:</p> <p>Windows 8/Windows 8 Pro</p> <p>Windows 7 Starter (SP1 or later)/Home Basic (SP1 or later)/Home Premium (SP1 or later)/Professional (SP1 or later)/Ultimate (SP1 or later)</p> <p>Windows Vista</p> <p>Home Basic (SP2 or later)/</p> <p>Home Premium (SP2 or later)/</p> <p>Business (SP2 or later)/Ultimate (SP2 or later)</p> <p>Mac OS X (10.6.8 or later)</p> <p>CPU: Intel Core 2 Processor 1.6 GHz or better</p> <p>Memory: 1 GB or better</p> <p>USB port (USB 2.0 High Speed)</p> <p>One of the above OS need to be installed to the computer at the factory.</p> <p>The unit is not guaranteed to operate with all computers.</p> <p>The unit is not guaranteed to operate with home built computers, operating systems that are personally upgraded, or multiple operating systems.</p> <p>The unit is not guaranteed to operate with functions such as system suspend, sleep, or hibernation, on any computer.</p>
Power source	DC3.7v built in Lithium Ion rechargeable battery Battery Charge Method: USB
Battery life	Approx. 6h
Charging time	Approx. 3.5h
Dimensions	Approx. 62mm x 18.5mm x 109mm Not including protrusion parts
Weights	Approx. 145g
Supplied accessories	Digital cable for WALKMAN® (1) Digital cable for Xperia (1)

	USB Cable(1) Silicone belt (1) Sheet (1) Quick Start Guide(1) Reference Guide(1)
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