

SONY

Press Release

One Signature Sound: Sony Pushes the Boundaries with the Ultimate Signature Series Personal Audio Range



L-R: MDR-Z1R headphones, TA-ZH1ES headphone amplifier and Walkman® NW-WM1Z

- **Made up of pure audio headphones, Walkman® and headphone amplifier**
- **Delivering exceptional sound quality with High-Resolution Audio**
- **Engineered with meticulous attention to detail using the highest quality materials**

Hong Kong, September 14, 2016 – The new Signature Series showcases Sony’s engineering excellence in audio and has been specially made for the ultimate sound experience. It is the perfect range for you to sit back, relax and enjoy your favourite tracks. Designed to complement each other as a Signature Series, together the headphones, Walkman® and amplifier bring the ultimate sound quality to your ears.

Celebrating its 70 anniversary year, Sony has taken a look back at its prestigious audio heritage, like the world famous Walkman®. Using the very latest technology, the design and engineering teams have created this series to give you the highest quality, pure audio sound; this is Sony’s signature for sound quality. With High Resolution Audio capability and innovative convergence of superior analog and digital technologies, the best seat in the house is yours with the Signature Series.

This series of audio products faithfully conveys the heart and soul that artists pour into their music, from the sublime resonance of an orchestra to the overflowing passion of a live concert. Together they push sound to an entirely new realm – taking the headphone experience from “listening” to “feeling”.

All Signature Series products are based on the newly standardised $\phi 4.4\text{mm}$ balanced connection. Sony has continued its pursuit of the ultimate materials and structures for reproducing the best sound possible, taking an unconventional approach to design. The organic shapes visible in every detail reflect a design based on the laws of physics for creating superior audio quality, and all materials have been selected based on the principles of acoustic design.



MDR-Z1R headphones

Atmosphere and musical detail

The **Hi-Res Audio stereo headphones MDR-Z1R** have a wide frequency range that gives the luxury of a natural and open soundstage with up to 120kHz playback in High Resolution Audio. The 70mm HD driver unit increases the sound space to create natural sounds with controlled airflow and flat plane waves.

This pair of headphones is exclusively engineered using the best materials and handcrafted by artisans for the ultimate sound experience in Japan. The new Fibonacci-patterned grill is inspired by the Fibonacci sequence¹ in nature. Its equalised opening further ensures minimal sound colouration and faithful reproduction of High Resolution Audio sources. Owing to the Resonance-Free Housing for elimination of unnecessary resonance, the sound has real atmosphere and fine detail, making it perfect for late nights at home.

¹ The Fibonacci sequence is Nature's numbering system that appears everywhere, from the patterns of spirals of leaves, to the optimal and uniform distribution of seeds on a sunflower.

From the genuine leather ergonomic ear pads and lightweight beta titanium headband, to the stainless steel wire mesh housing protector, this exquisite product exhibits high-class luxury in every component.



NW-WM1Z Walkman®

Sophisticated and iconic

The iconic Walkman® is revamped for the ultimate sound quality with the flagship WM1 series, including **Walkman® Hi-Res Audio player NW-WM1Z** and **NW-WM1A**. A superb listening experience is possible with these digital music players that can handle any music file, including support for DSD Native format (11.2MHz)². Also, thanks to new DSEE HX™, it has five modes that you can select based on the type of music you are listening to: Standard, Female Vocal, Male Vocal, Percussion, or Strings. This technology means it can carefully upscale lower bit rate files to near High Resolution Audio quality. The new Walkman® models can also deliver music with purity, precision and a natural acoustic balance.

Design is key while pursuing high quality sound, the WM1Z has a gold-plated oxygen-free copper chassis showcasing Sony's excellence in engineering – each component is sourced with meticulous attention to detail.

With its own easy to use menu this music player has a variety of modes to bring out the best in your music. The optimised audio line and clock control are just a few more of the star features for laidback listening. Furthermore, the cable used inside the WM1Z from the amp to the

² DSD Native format playback is only the case for Balanced connection.

headphone jack is a four wire braided cable engineered with Kimber Kable® that helps to achieve the richly expressive and refined audio quality.

This iconic product also has the much needed wireless features of Bluetooth® and LDAC™ so you can play your audio files from multiple sources without the worry of tangled cables.

A newly developed FT CAP (High polymer capacitor) has been built into the power supply of the amp section for approximately four times higher output power³ than the current NW-ZX2 to drive any headphones. Expansive transparency of vocals and instruments are also improved to achieve deep, powerful bass notes.

For those who prefer a sleek and aluminium finish on the chassis, there is also the **NW-WM1A** that gives low chassis resistance for clear and powerful bass notes. With its special oxygen-free copper cable used as the wiring material from the amp to the headphone jack for a powerful sound quality.



L-R: TA-ZH1ES headphone amplifier, NW-WM1 series Walkman® and MDR-Z1R headphones

High quality headphone amplification

The **TA-ZH1ES Hi-Res Audio headphone amplifier**, enables higher sound quality through your headphones. Offering a new standard for headphone amplifier listening, this product will deliver the superior sound of High Resolution Audio (Up to DSD 22.4MHz/PCM 768kHz/32bit) for a truly musical home listening experience.

³ Single end: 60mW+60mW (16Ω)

Balanced: 250mW+250mW (16Ω)

The D.A. Hybrid Amplifier Circuit gives the combination of Sony's full digital amplifier S-Master HX™ together with analog amplifier, and preserves the fine detail sound of S-Master HX™ and low distortion sound with the support of analog amplifier.

The newly developed Frame/Beam/Wall (FBW) chassis combines Wall structure with the familiar FB chassis that has been cultivated in the ES series. The Wall is created by shaving extruded aluminium and realises a rigid body that can suppress unnecessary vibration. Also the Acoustically Tuned Panel achieves the ideal sound while controlling vibration and resonance.

For preserving the feeling of original sound, the ZH1ES has new DSEE HX™ and DSD Remastering Engine which converts PCM source to DSD 11.2MHz.

Compatibility is key with the ZH1ES. Although this product is best enjoyed with a combination of the new Z1R headphones and WM1Z/WM1A, it is compatible with other models as well. With various inputs and a wide range of balanced outputs, plus unbalanced connections, you can be sure to enjoy music in superb high quality without any compromise.



L-R: MUC-B20SB1, MUC-S12SB1, and MUC-M12SB1 optional cable accessories engineered with KIMBER KABLE®

A fusion of technological excellence

Complementing the Signature Series are three optional cable accessories, the product of the synergy between KIMBER KABLE®'s⁴ high-quality sound cable technology and Sony's excellent audio technology. The cables MUC-B20SB1, MUC-S12SB1, and MUC-M12SB1 are able to connect various Sony Hi-Res Audio headphones with the latest 4.4mm Balanced Connection headphone amplifier TA-ZH1ES and Hi-Res Audio player NW-WM1.

With an 8-wire braided structure, the cables achieve excellent sound quality with higher clarity, lower external noise, minimised crosstalk and optimal electrical parameters. Gold-plated plugs

⁴ KIMBER KABLE is a registered trademark of RKB Industrial, Inc. in the U.S.A. and other countries.

with high corrosion resistance are used, and the aluminum alloy grips with better robustness and its acoustic characteristics reduce unwanted vibrations. The headphone-side plugs have screw-type lock rings, which enable stable and secure connections. The Balanced Standard Plug is a plug that is plated with a non-magnetic material, which prevents magnetically induced noise and is exceptionally durable.

The Signature Series headphones, Walkman® and headphone amplifier as well as the cable accessories will be available from the beginning of November 2016.

The Signature Series

Models	Selling prices of Sony Store
MDR-Z1R	HK\$15,980
NW-WM1Z	HK\$24,980
NW-WM1A	HK\$9,680
TA-ZH1ES	HK\$17,980

Optional cable accessories engineered with KIMBER KABLE®

Models	Selling prices of Sony Store
MUC-B20SB1	HK\$1,980
MUC-S12SB1	HK\$1,780
MUC-M12SB1	HK\$1,780

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 Headphones MDR-Z1R


Model Name	MDR-Z1R Hi-Res Audio Headphones
Hi-Res Audio	
Receiver Type	Closed
Wearing Style	Around-Ear Headband
Driver Unit	70mm Dynamic
Diaphragm	Aluminum-coated Liquid Crystal Polymer Edge Diaphragms with Magnesium Dome

Frequency Response	4-120,000Hz
Sensitivity	100dB/mW
Impedance (at 1kHz)	64Ω
Cables	Headphone Cable (3m Silver-coated OFC with gold-plated 3.5mm Stereo Mini Plug); Balanced connection headphone cable (1.2m Silver-coated OFC with L-shaped gold-plated 4.4mm Balanced Standard plug)
Weight	Approx. 385g (excluding cable)
Case Accessory	Hard storage case


Specifications of Sony Hi-Res Audio Player Walkman® NW-WM1Z and NW-WM1A

Model Name	Walkman® NW-WM1Z Hi-Res Audio Player	Walkman® NW-WM1A Hi-Res Audio Player
Hi-Res Audio		
Memory Size	256GB	128GB
External Memory	microSD, microSDHC, microSDXC	
Digital Amplifier	S-Master HX™	
Audio Output	4.4mm Balanced Standard Jack, 3.5mm Stereo Mini Jack	
Sound Character	High quality, detailed, natural acoustics	High quality, detailed sound
Chassis	Gold-plated Oxygen-Free Copper Chassis (Purity 99.96%)	Aluminum Chassis
Internal Wiring	4-wire Braided Cable Engineered with KIMBER KABLE®	Oxygen-Free Copper (OFC) Cable
Sound Register	Fine Sound Register	MELF Register
Power Supply	FT CAP (High polymer capacitor)	
Output Power (JEITA 16Ω/mW)	Balanced standard-jack: 240mW+240mW; Stereo mini-jack: 60mW+60mW	
Display Size, Resolution	4.0-inch with new user interface, FWVGA(854 x 480 Pixels)	
Bluetooth®	Bluetooth® v4.2 (SBC, LDAC)	
NFC™	NFC™	
Sound Enhancements	DSEE HX™, Dynamic Normalizer, DC Phase Linearizer, 10Band equalizer / Tone control, Direct Source	
Battery Life (Max. continuous playback time) (Approx.)	MP3 128kbps: 33hr ; FLAC 192kHz/24 bit : 26hr; DSD 2.8MHz/1bit: 15hr; DSD 11.2MHz/1bit: 11hr	
USB Charging Time	Approx. 7 hr	
Supported Formats	MP3, WMA, FLAC, Linear PCM, AAC, HE-AAC, Apple Lossless, AIFF, DSD Native (up to 11.2MHz)	
Dimensions (WxHxD)	Approx. 72.9 x 124.2 x 19.9mm	
Weight	Approx. 455g	Approx. 267g
Supplied Accessory	Leather case	-

Specifications of Sony Hi-Res Audio Headphone Amplifier TA-ZH1ES

Model Name	TA-ZH1ES
Hi-Res Audio	
Amplifier	
Output Power	Balanced : 1200mW + 1200mW (32Ω 1KHz 1%), Unbalanced : 300mW + 300mW (32Ω 1KHz 1%)
Impedance	8-600Ω
Frequency Characteristics	4Hz-80kHz (-3dB)
Playing Frequency Range	4Hz-200kHz
Gain Switch	Yes (High/Low)
Input/Output	
Headphone Jack	Balanced standard (4.4 mm in diameter), 3-pole mini (balanced connection, 3.5 mm in diameter) × 2, XLR4 (balanced 4-pin), Standard (6.3 mm in diameter), Stereo mini (3.5 mm in diameter)
Input/Output	WALKMAN/Xperia Input, USB-B Input, COAXIAL Input, OPTICAL Input, LINE L/R Input, PRE OUT(Variable/Fixed)
Support format	
Sampling Frequency / Bit Depth	DSD Native up to 22.4 MHz, DSD DoP up to 11.2 MHz, PCM up to 768 kHz/32 bit
Walkman/Xperia Port	DSD Native up to 11.2 MHz, DSD DoP up to 5.6 MHz, PCM up to 384 kHz/32 bit
Support Device for Walkman/Xperia Port	Hi-Res compatible Walkman / Hi-Res compatible Xperia #Please see the support site of this product for more detailed information.
USB-B Port	DSD Native up to 22.4 MHz, DSD DoP up to 11.2 MHz, PCM up to 768 kHz/32 bit
Coaxial Input Jack	PCM up to 192 kHz/24 bit
Optical Input Jack	PCM up to 96 kHz/24 bit
Audio Setting	
DSD Remastering Engine	Yes (Convert to DSD 11.2MHz)
8x over sampling	Yes
DSEE HX	Yes (Upscale to PCM 384kHz/32bit)
D.C. Phase Linearizer	Yes
LR Balance Adjust	Yes
Other	
Support Software for Music Playback	Hi-Res Audio Player / Media Go
Power	220-240V 50/60Hz
Power Consumption	35W
Accessories	Remote control / AC power cord (mains lead) / Digital cable for WALKMAN / USB cable (USB-A/USB-B) / R03(size AAA) Batteries
Instruction Manual	Yes (English , Traditional Chinese)
Dimension(WxHxD)	210mm x 65mm x 314mm #including projecting parts and controls
Weight(kg)	4.4

Specifications of Sony Cable Accessories MUC-B20SB1, MUC-S12SB1 and MUC-M12SB1

Model Name	MUC-B20SB1	MUC-S12SB1	MUC-M12SB1
Hi-Res Audio			
Engineered with Kimber Kable®	Yes		
Length (Approx.)	2m	1.2m	1.2m
Conductor Material	OFC		
Conductor Structure	Multi-gauge conductor		
Cable Structure	8-wire Braid		
Device-side Plug	4.4mm Balanced Standard Plug		
Headphone-side Plug	3.5mm 3-pole Plug (Balanced Connection)×2	3.5mm 4-pole Plug	Sony unique Ear Receiver Plug×2
Compatible Sony Headphones*	MDR-Z1R/MDR-Z7	MDR-1A/MDR-100AAP	XBA-Z5/XBA-H3/XBA-H2/XBA-A3/XBA-A2/ XBA-300AP/XBA-N3AP/XBA-N1AP
Compatible Sony Equipment* (*As of Aug 2016)	TA-ZH1ES / NW-WM1Z / NW-WM1A / PHA-2A		

