

NW-ZX2

Hi-Res Audio Digital Music Player

Powerful and ultra-efficient technology meets high-capacity battery life and touchscreen ease of use for a powerful, personal Hi-Res audio experience that will take you back



Bullets

- 128GB¹ Walkman® Hi-Res Audio Digital Music Player
- Compatible with: DSD, WAV, FLAC, AIFF, ALAC, MP3, WMA and more
- Enjoy up to 60-hours MP3, and 33-hours Hi-Res playback on a single charge²
- Bluetooth® with LDAC™ Hi-Fidelity wireless music streaming
- Built-in, dual-band Wi-Fi, allows users to enjoy music stored on other DLNA enabled devices
- microSD slot allows expanding music capacity up to an additional 128GB¹
- Google™ Android™ v4.2: Indulge in music, games, videos and more through the Google Play Store
- 4.0" FWVGA TRILUMINOS™ LCD touchscreen display with OptiContrast Panel
- Engineered for Sound: S-Master® HX full digital amp for unparalleled, delicate, and dynamic sound
- DSEE HX upscales audio (MP3, AAC, ATRAC, and WMA) to near Hi-Res quality
- Drag & drop from iTunes® for Mac® or Windows®
- USB digital audio output for lossless connectivity with compatible devices
- Also includes leather carrying case and USB cable

Features

Portable Hi-Fi redefined...

Beginning with high-efficiency, high-power circuit board, a sophisticated DAC, and a robust S-Master® HX digital amplifier we then layer the Google™ Android™ OS, a vivid TRILUMINOS™ touchscreen LCD and cap it off with a sleek and solid aluminum chassis. The end result is sweet, soothing, and natural sound that takes you back...

That's quite a music collection...

128 GB¹ built-in flash memory allows for up to 2700 Hi-Res tracks (LPCM 1411kbps @ 4 minutes/song). When your collection starts to burst at the seams, you can easily expand memory capacity further using the included microSD slot (up to 256 GB¹).

Your Hi-Res favorite tracks, even in DSD!

The NWZ-ZX2 broadly supports the playback of a plethora of Hi-Res digital music file formats including: MP3, WMA, WMA lossless, WAV, FLAC, L-PCM, AAC, ALAC, AIFF, DSF, and DSDIFF.

For optimized playback, a user-selectable DSD filter allows for refined playback, either a slow roll-off ideal for expressive music and a warmer sound experience or sharp roll-off tailored for energetic music and a fuller sound benefitting from a sharp attack.

Long battery life

A built-in, high-capacity, lithium ion battery coupled with power supply-line enhancements delivers enhanced battery life: up to 60 hours of audio playback (MP3)/ up to 33 hours (FLAC 192/24-bit) per charge.²

Enjoy high-quality wireless music streaming

Enjoy simplified, high-resolution Bluetooth® audio streaming with Sony LDAC codec and Near Field Communications (NFC) technology.³ Simply align your compatible devices via the NFC logos to activate or deactivate pairing and let the magic happen.

Google™ Android™

Not just a familiar face, Google™ Android™ and dual-band Wi-Fi® affords the ZX2 access to: Gmail, Google Search, Google+, Google Play Books, Music, Movies & TV, Games and the Google Play Store.

Dual band Wi-Fi®

Built-in dual-band Wi-Fi® support also allows users to access and share music stored on other DLNA enabled devices.

Vivid, touchscreen display

The 4.0" FWVGA TRILUMINOS™ LCD touchscreen display with OptiContrast panel delivers outstandingly vivid album artwork, photos, and even videos.

Optimized chassis with side-mounted controls

A gold-plated, copper chassis delivers high-rigidity with low impedance, the ideal base from which to deliver superb audio reproduction.

Side-mounted controls allow for natural play/pause and track navigation when stowed in a jacket pocket or even when using the supplied leather carrying case.

High-efficiency...

A low-impedance, thick film, copper foil Printed Circuit Board Assembly optimized for superior power delivery, renders an ultra-low noise-floor for enhanced spatial response and tonality—a listening experience that sounds and feels real.

Sophisticated sound

S-Master® HX digital amplification circuitry with enhanced power supply and high-power output stage delivers sophisticated and transparent audio reproduction.

Dual clock oscillators

As is the case with our line of Hi-Res headphone DAC/Amplifiers, dual dedicated clock circuits allow for switching between 44.1kHz (44.1/88.2/176.4kHz, CD/DSD) and 48kHz (48/96/192kHz), depending on music file sampling frequency. The benefit of reducing DA conversion timing inaccuracies is enhanced sound stage integrity and audio response, for superior noise and distortion-free audio reproduction.

DSEE HX

DSEE HX offers natural sound with a spacious feel by revitalizing the audio signal and also restoring the high frequency sounds stripped by the audio compression process to near hi-resolution sound quality.

Drag, drop and go

With a Walkman® player, you are never tied to just one music service. Easily drag and drop files from either iTunes® or Windows® Media and enjoy.

USB Digital output

When used with a compatible device, such as a PHA-3 Headphone DAC/Amplifier, pairing the two using the USB Digital output can result in lossless interconnectivity and a purer listening experience.

General Specifications

GENERAL SPECIFICATIONS	
Audio	<p>Audio Format(s) Supported:</p> <p>MP3: 32-320 kbps (incl. VBR) at 32, 44.1, and 48 kHz</p> <p>WMA: 5-384 kbps (incl. VBR) at 8-48 kHz</p> <p>FLAC: 16/24-bit at 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, and 192 kHz</p> <p>L-PCM: 16/24-bit at 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, and 192 kHz</p> <p>AAC: 16-320 kbps (incl. VBR) at 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, and 48 kHz</p> <p>HE-AAC: 32-144 kbps at 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, and 48 kHz</p> <p>ALAC: 16/24-bit at 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, and 192 kHz</p> <p>AIFF: 16/24 bit at 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, and 192 kHz</p> <p>DSD: 1-bit at 2.8224 or 5.6448 Mhz</p> <p>Frequency Response: 20 to 40,000 Hz (when playing data file, single signal measurement)</p> <p>Audio Power Output: 15 + 15 mW</p>
Audio Features	<p>Play Mode: Normal / Repeat / Shuffle / Shuffle & Repeat / Repeat 1 Song / SensMe™ channels</p> <p>Sound Mode: ClearAudio+ (On/Off)</p> <p>Sound Mode: Equalizer</p> <p>Sound Mode: Clear Bass</p> <p>Sound Mode: Surround Sound</p> <p>Sound Mode: DSEE HX (On/Off)</p> <p>Sound Mode: Dynamixc Normalizer (On/Off)</p>
Display	<p>Display Technology: TFT display with white-LED backlight</p> <p>Screen Size: 4.0 inch (10.2 cm) FWVGA (854x480 pixels)</p>
General	<p>Music Storage Capacity (Approx): 128 GB (expandable via optional microSD)</p>
Hardware	<p>Display: 4.6 in. FWVGA TFT display (854 x 480 pixels)</p> <p>Interface: Hi-Speed USB (USB 2.0 compliant)</p> <p>System Requirements: IBM PC/AT compatible computer preinstalled with the following Windows operating systems⁴:</p> <p>Windows® XP⁵ (Service Pack 3 or later)</p> <p>Windows Vista® (Service Pack 2 or later)</p> <p>Windows® 7 (Service Pack 1 or later)</p> <p>Windows® 8</p> <p>Mac OS X v10.6 or later</p> <p>Not supported by OSs other than above.</p> <p>CPU: 1 GHz processor (2.6 GHz recommended for video playback)</p> <p>RAM: 1 GB or more (2 GB RAM required for Windows 8 64-bit)</p> <p>Hard Disk Drive / Solid State Drive: 600 MB or more of available space</p> <p>Internet Explorer 7 or later</p> <p>Internet connection (for Gracenote® MusicID® service, podcast features, Store access, or online help).</p> <p>We do not guarantee operation for all computers even if they meet the above System Requirements.</p> <p>Not supported by the following environments</p> <p>Personally constructed computers or operating systems</p> <p>An environment that is an upgrade of the original manufacturer-installed operating system</p> <p>Multi-boot environment</p>
Inputs and Outputs	<p>Digital Audio Input(s): WM-Port (22 pin)</p> <p>Headphone Output: Stereo mini-jack</p> <p>USB Port(s): High-speed USB 2.0 compliant</p>
Memory	<p>Memory Size: 128 GB, Actual available memory for media contents 113 GB (121,269,354,496 bytes)</p> <p>User Memory Capacity (Approx.): microSD (up to 2 GB) microSDHC (up to 32 GB) microSDXC (64 GB and more)</p>

Power	<p>Battery Charging (Approx): USB-based: 4.5 Hrs (full charge)</p> <p>Battery Indicator: LED Battery Life Indicator (Green/Orange/Red)</p> <p>Battery Life (Approx): MP3 @ 128 kbps = 60 Hrs.</p> <p>Battery Life (Approx): Linear PCM @ 1411 kbps = 61 Hrs.</p> <p>Battery Life (Approx): FLAC @ 96 kHz/24 bit = 43 Hrs.</p> <p>Battery Life (Approx): FLAC @ 192 kHz/24 bit = 33 Hrs.</p> <p>Battery Life (Approx): DSD @ 2.8224 Mhz/1 bit - 22 Hrs.</p> <p>Battery Life (Approx): DSD @ 5.6448 Mhz/1 bit - 16 Hrs.</p> <p>Battery Life (Approx): MPEG-4 @ 384 kbps = 9 Hrs.</p> <p>Power Type: Built-in Rechargeable Li-ion Battery</p>
Video	<p>Video Format(s) Supported: AVCHD: 10 Mbps bitrate, 30 fps frame rate, 720 x 480 max MPEG4: 6 Mbps bitrate, 30 fps frame rate, 720 x 480 max WMV9: 6 Mbps bitrate, 30 fps frame rate, 720 x 480 max</p>
Video Features	JPEG Playback: JPG: Max. image size 6,048 x 4,032 pixels PNG: Max. Image size 2,048 x 2,048 pixels
Weights and Measurements	<p>Dimensions (Approx.): 64.7 x 130.4 x 16.2 mm (2 5/8 x 5 1/4 x 21/32 in) Projecting parts not included. 65.1 x 131.2 x 18.5 mm (2 5/8 x 5 1/4 x 3/4 in)</p> <p>Weight (Approx.): 235 g (8.3 oz)</p>
Wireless Connectivity	<p>Frequency Band: Bluetooth spec 3.0 IEEE 802.11a/b/g/n</p> <p>Maximum Range: Line of sight approx.30 ft (10 m)</p>
BLUETOOTH FEATURE & DEVICE	
Bluetooth Audio Feature	Audio Codec: LDAC and SBC codecs
IN THE BOX	
Quick Start Guide	
User Guide	
USB Cable (1)	
Leather Case (1)	
Spacer (1)	

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

2. Actual battery life will vary based on product settings, usage patterns and environmental conditions.

3. Interoperability and compatibility among Bluetooth® devices vary.

4 - Excluding OS Versions not supported by Microsoft.

5 - Excluding 64-bit OS versions.

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