



SONY®



*X*pect
*X*ceptional
*X*periences

*with superb audio and
video quality.*



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The new X1000 Series
Walkman® Video MP3 Player by Sony



Xtraordinary feats, Xtraordinary walkman

An exemplar of portable entertainment devices, Sony's new X1000 Series Walkman® charms you with audio and video that's peerless by standards. Thanks to its inbuilt digital noise-cancelling function* combined with Sony's Clear Audio Technologies, you'd expect remarkable sound or pristine silence. But add S-Master to the mix, a digital amplifier that effectively eradicates jitter (a killjoy for audiophiles), and you can expect to rethink the way you listen.

A 3-inch OLED screen with an astounding 10,000:1 contrast ratio renders still and moving images in extreme clarity while

being capable of reproducing a colour gamut - that far trumps the common LCD - means that your movie experience is second to none. What's more, doubling up as a touch panel and complemented by physical buttons enables you to multi-task via hybrid operation: Toggling music playback while viewing a photo slideshow is now a piece of cake.

Further empowering you with internet connectivity via WiFi™, your X1000 Series Walkman® lets you surf websites, download podcasts and access YouTube content at or out of home. Simply stroll into a hotspot and watch people gravitate towards the latest hotspot for entertainment: You. Definitely more than meets the eye, Sony's X Series Walkman is one handy companion you'd want to have within earshot always.

And that's the allure of Xtraordinary.



Xhilarating audio

DIGITAL 

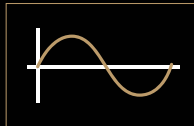
DIGITAL NOISE-CANCELLING (DNC) FUNCTION

Featuring a revolutionary DNC software engine built into the player that pushes out optimal noise-cancelling signals*, Sony's X1000 Series Walkman® makes electric noise history. A digital equaliser presents the original audio footprint in superb clarity, while armed with a pair of MDR-NC020 noise-cancelling headphones means that you're assured of superb sound quality or pristine silence in-train, in-flight or simply at the office.

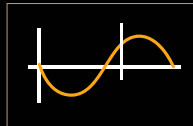
HOW IT WORKS

Ambient noise signals are first detected via the inbuilt microphone planted within each headphone. They are then analysed and subsequently neutralised by opposing sound waves exuded by the Walkman's advanced noise-cancelling circuit.

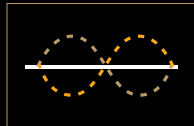
Ambient noise detected



Opposing wave generated



Neutralisation



In-train



In-flight



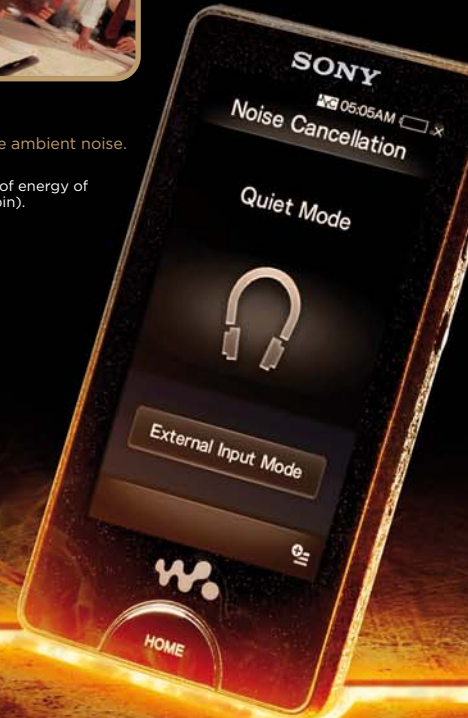
Office

Three distinct noise-cancelling modes eliminate in-train, in-flight and office ambient noise.

* Total noise suppression ratio is equivalent to approx. 98.0% (-17dB) reduction of energy of sound compared with not wearing headphones. (NC Environment: In-flight cabin).



The X1000 Series Walkman® comes supplied with an in-flight AV cable and plug adapter, allowing you to enjoy music or videos onboard aircraft, disturbance-free.



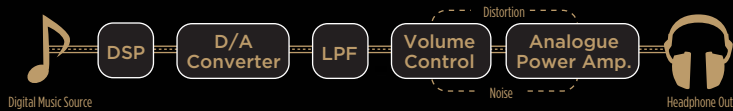
Xhilarating audio

DIGITAL AMPLIFIER (S-MASTER)



The simplest solution is usually the best because the more complicated the system is, the more distortion may occur. Sony S-Master is a unique digital amplifier that accepts and clearly amplifies all digital signals without the need to convert them into analogue first.

CONVENTIONAL ANALOGUE AMPLIFIER



Conventional analogue amplifiers are complicated. Digital signals need to be converted into analogue first before they are amplified.

S-MASTER FULL DIGITAL AMPLIFIER



S-Master dramatically simplifies the amplifier design. All digital signals are amplified in digital to maintain audio quality.

LEGEND:

DSP = Digital Signal Processing
D/A Converter = Digital Analogue Converter
LPF = Low Pass Filter

DIGITAL SOUND ENHANCEMENT ENGINE (DSEE)



Sony's Digital Sound Enhancement Engine recreates the high-frequency spectrum sounds lost during audio compression, letting you enjoy playback that is closest to the original recording.

EX HEADPHONES



Featuring highly responsive 13.5 mm driver units, Sony's EX headphones pump out bass and treble in perfect clarity over a wide dynamic-range. Moreover, its unique ear bud design and positioning creates air-tight aural chambers, locking in every note and beat whenever you put them on.



CLEAR BASS



Make unwanted distortion a thing of the past. With Clear Bass technology you get only the clearest-hitting bass sounds that are set to rock your world.

CLEAR STEREO



Turn up your music and let the rhythm move your body with Clear Stereo technology. Reproducing the clear stereo sound of the original source and preventing audio signals leaking from one channel to another, this innovative technology ensures nothing but the best audio experience ever.

Xhilarating audio



VIRTUAL PHONE TECHNOLOGY (VPT) ACOUSTIC ENGINE

Match your music to your mood with a choice of acoustics ranging from Studio, Live, House, Club Space, Arena, Matrix, even Karaoke.

DYNAMIC NORMALISER

This unique setting greatly minimises the possibly jarring difference in volume (recording) levels while you're in Shuffle Play mode.

5-BAND EQUALISER

Choose your favourite sound settings to complement your music with preset options spanning Heavy, POP, Jazz, Unique and Custom.

FM TUNER (30 PRESETS)

Tired of listening to your playlists? Why not tune in to your favourite radio station for some fresh beats?

visual Xtraordinaire



3.0" WIDE ORGANIC LIGHT-EMITTING DIODE (OLED) SCREEN



Thinner and boasting a response time (0.01 milliseconds or less) faster than that of LCDs (2 milliseconds) OLED screens can reflect, instantly, a change in brightness, perfect for movie playback. Furthermore, OLEDs emit light directly and are able to display an even greater range of colours (than LCDs), including clear black, realising an outstanding contrast ratio of 10,000:1. Tonal and contrast values remain precise and consistent even at 180-degree viewing angles, thereby ensuring the clearest of images any way you look at it.

Type	LCD	OLED	Benefit
Colour Reproduction (versus NTSC)	60%	100%	Super real colour
Contrast	250:1	10,000:1	Super high contrast
Response Time	35ms	0.01ms	Best for sports and action video
View Angle	115° (Top-Bottom) 150° (Left-Right)	180° (Top-Bottom) 180° (Left-Right)	Wider view angle

visual Xtraordinaire



HYBRID OPERATION



With a touch panel and ergonomically designed buttons forming its repertoire of controls, the X1000 Series Walkman® offers you maximum flexibility while multi-tasking. It's easy to execute quick operations such as skipping to the next track or adjusting the volume simply by depressing a button. Or scrolling through albums or movie scenes guided by visual aids (thumbnails and details) with the touch panel. Whichever activity you're engaged in, Sony makes operating your Walkman® a piece of cake.



INTERNET CONNECTIVITY



Inbuilt with WiFi™ capabilities, the new X1000 Series Walkman® supports the streaming of YouTube™ videos, downloads direct from podcast sites, even enabling you to surf the web* via NetFront®, a browser specially designed for Walkman®. Simply input the desired URL or search word on the browser as you would on your personal computer. A "Related Links" function connects you directly to YouTube™ and Yahoo! ONESEARCH™ whenever you key in a music-related search word such as an artiste's name or genre. And while you're online taking in new sights and sounds, enjoy the security offered by WiFi™ Protected Setup (WPS®).



* Some web pages may not be displayed properly. NetFront® does not support viewing of Flash® contents on websites or the uploading/downloading of files.

* YouTube and the YouTube logo are trademarks of Google Inc. Copyright © 2009 Yahoo! Inc. All Rights Reserved.

specifications

	NWZ-X1050	NWZ-X1060
Capacity	16 GB	32 GB
Colours	Black	
Supported Audio Formats (Including Podcasts!)	AAC-LC ² , Linear PCM, MP3, WMA ³	
Supported Video Formats (Including Podcasts!)	AVC (H.264/AVC), MPEG-4 (Simple Profile), Windows Media Video 9	
Supported Photo Formats	JPEG ⁴ , 4,096 x 4,096 pixels (Max.)	
Display with Touch Panel	3.0" OLED Display WQVGA (432 x 240 pixels), 262,144 colours	
FM Tuner	No. of Presets: 30, FM Frequency Range: 87.5 to 108.0 MHz, Headphone Cord Antenna	
Music Searching Methods	All Songs/Album/Artist/Genre/Release Year/Playlists/Folder	
Music Play Mode	Normal/Repeat/Shuffle/Shuffle & Repeat/Repeat 1 Song/Playback Range Selection (All Range/Selected Range)	
Video/Podcast Play Mode	Normal (Continuous playback is not supported)	
Clear Audio Technologies	S-Master/DSEE/Clear Stereo/Clear Bass/Noise-Cancelling/EX Headphones (MDR-NC020, 105 cm)	
Sound Effects (Available for music playback only)	DSEE, 5 Band Equaliser (Heavy/Pop/Jazz/Unique/Custom 1/Custom 2) and Clear Bass, Clear Stereo, VPT (Arena/Club/Karaoke/Live/Matrix/Studio), Clear Stereo, Dynamic Normaliser	

WIFI	Standard: IEEE 802.11 b/g, Frequency Band: 2.400 GHz ~ 2.483 GHz, Security: WEP/WPA/WPA2, Applications: Internet Browser* (NetFront* for Walkman*), YouTube, Podcast Direct Download
Frequency Response	20~20,000 Hz (When playing data file, single signal measurement)
PC Connection	Hi-Speed USB WM-PORT (Multi-connector): 22 pin
Power Source/Recharging Method	Built-in Rechargeable Li-ion Battery, USB-based charging (from a computer via supplied USB cable)
Battery Life (Continuous Playback)	Music (Noise Cancelling "Off" / Noise Cancelling "On") MP3 (128kbps) ⁶ : Approx. 33 H/21.5 H WMA (128kbps) ⁶ : Approx. 31 H/21.5 H AAC-LC (128kbps) ⁶ : Approx. 29 H/20.5 H Linear PCM (141kbps) ⁶ : Approx. 31 H/21.5 H
	Video (Noise Cancelling "Off" / Noise Cancelling "On") MPEG-4 (768kbps) ⁷ : Approx. 7.5 H/6.5 H MPEG-4 (384kbps) ⁷ : Approx. 9.0 H/7.5 H AVC Baseline Profile (768kbps) ⁷ : Approx. 7.5 H/6.5 H AVC Baseline Profile (384kbps) ⁷ : Approx. 8.0 H/7.5 H
	FM (Noise Cancelling "Off" / Noise Cancelling "On") FM Radio: Approx. 17.5 H/14 H
	WIFI™ (Noise Cancelling "Off" / Noise Cancelling "On") Web Browsing ⁷ : Approx. 5.5 H/5.0 H YouTube Streaming ⁷ : Approx. 4.5 H/4 H
Charging Time (USB-Based Charging)	80% Recharge: Approx. 1.5 H Full Recharge: Approx. 3 H
Interface	Headphone: Stereo Mini-Jack, WM-PORT (Multi-connector): 22 pin, Hi-Speed USB Compatible (2.0)
Dimensions	52.5 mm (w) x 97.4 mm (h) x 10.5 mm (d), Weight: 98 g (Approx. 3.5 oz)
Supplied Accessories	Headphones MDR-NC020LP (105 cm), ear buds (S/M/L); USB cable and attachment, audio input cable; Plug Adaptor for in-flight use (Single/Dual); "Windows Media Player 11", "Media Manager for Walkman™", "Operation Guide" and "Content Transfer" on CD-ROM, Quick Start Guide

¹ Photo contents are not supported.

² Copyright-protected AAC-LC files cannot be played back.

³ Compatible with WM-DRM 10.

⁴ Depending on their file formats some photo files cannot be played back.

⁵ Contents may not be shown properly depending on the website. The device is unable to show Flash content or download any content from websites.

⁶ The timings are approximated when the Equaliser and the VPT are set to "None" and DSEE, Clear Stereo, Dynamic Normaliser, Wireless LAN function set to "Off".

⁷ The timings are approximated when the brightness of the Common Setting is set to "3".