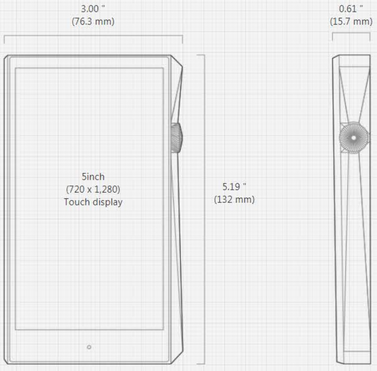
A&ultima, SP2000

Specification



Weight: Stainless Steel 14.49 oz (410.8 g)
/ Copper 15.25 oz (432.4 g)

Specification

General Specifications

Model	SP2000
Body Color	Stainless Steel / Copper
Body Material	Stainless Steel : Stainless Steel / Copper : Copper
Display	5inch (720 x 1,280) Touch display
Supported Audio Formats	WAV, FLAC, WMA, MP3, OGG, APE, AAC, ALAC, AIFF, DFF, DSF, MQA(Support Scheduled)
MQA playback	Services(Tidal Masters), Local files, External USB, MQA-CD(ripped)
Sample rate	PCM : 8kHz ~ 768kHz (8/16/24/32bits per Sample) / DSD Native: DSD64(1bit 2.8MHz), Stereo / DSD128(1bit 5.6MHz), Stereo / DSD256(1bit 11.2MHz), Stereo / DSD512(1bit 22.4MHz), Stereo
Output Level	Unbalanced 3.0Vrms / Balanced 6.0Vrms (Condition No Load)
CPU	Octa-Core
DAC	AKM AK4499EQ x2 (Dual DAC)
Decoding	Support up to 32bit / 768kHz Bit-to-Bit Playback
Input	USB 3.0 Type-C input (for PC & MAC)
Outputs	Unbalanced Out (3.5mm) / Optical Out (3.5mm) / Balanced Out (2.5mm, only 4-pole supported)
Wi-Fi	802.11 a/b/g/n/ac (2.4/5GHz)
Bluetooth	V4.1 (A2DP, AVRCP, aptX™ HD)
Dimensions	3.00 "(76.3 mm) [W] x 5.19 "(132 mm) [H] x 0.61 "(15.7 mm) [D]
Weight	Stainless Steel : 14.49 oz (410.8 g) / Copper : 15.25 oz (432.4 g)
Feature Enhancements	Firmware upgrades supported (OTA)

Audio Performance

Frequency Response	±0.015dB (Condition: 20Hz~20kHz) Unbalanced / ±0.010dB (Condition: 20Hz~20kHz) Balanced ±0.050dB (Condition: 20Hz~70kHz) Unbalanced / ±0.030dB (Condition: 20Hz~70kHz) Balanced
Signal to Noise Ratio	124dB @ 1kHz, Unbalanced / 125dB @ 1kHz, Balanced
Crosstalk	-138dB @ 1kHz, Unbalanced / -144dB @ 1kHz, Balanced
THD+N	0.0005% @ 1kHz, Unbalanced / 0.0004% @ 1kHz, Balanced
IMD SMPTE	0.0003% 800Hz 10kHz(4:1) Unbalanced & Balanced
Output Impedance	Unbalanced Out 3.5mm (1.5ohm) / Balanced out 2.5mm (1ohm)

Clock source

Clock Jitter	25ps(Typ)
Reference Clock Jitter	200 Femto Seconds

Battery

Capacity	3,700mAh 3.8V Li-Polymer Battery
Continuous Playback Time	Up to 8 hours (Standard - MUSIC: FLAC, 16-bit/44.1kHz, Unbalance, Volume 80, EQ OFF, LCD OFF)
Charge Time	About 2.5 hours (Standard - 9V/1.67A Fast charging) About 5 hours (Standard - 5V/2A General charging)

Memory

Built-in Memory	512GB [NAND]
External Memory	microSD (Max. 512GB) x1

OS

Supported OS	Windows 7,8,10 (32/64bit), MAC OS X 10.7 and up

- The image/specification may be changed without notice to improve product performance and quality.