

# APERIO

WARWICK ACOUSTICS 

LIMITED EDITION BLACK



Introducing the  
Limited Edition Black APERIO  
**The Ultimate Performance Rebel**

[www.warwickacoustics.com/headphones](http://www.warwickacoustics.com/headphones)

# SPECIFICATIONS

## HEADPHONE SPECIFICATIONS:

Configuration	Open-back; circumaural type
Transducer	Balanced-Drive High Precision Electrostatic Laminate (BD-HPEL)
Effective Diaphragm Area	3570 mm <sup>2</sup>
Frequency Response	10 Hz - 60 kHz
Output Level (SPL)	Compliant with EN 60065/A12:2011 (EN50332) when driven by APERIO electronics (for all inputs); digital input: ~ 104 dB; analog input: ≥ 106 dB (continuous, est.)
Ear and Headband Cushions	"Cabretta" top-grain, sheepskin leather; perforated surface on ear cushions
Input	Polarized, 4-pin, self-latching connectors for left and right channels
Drive Cable	Dual mono, shielded, ultra-low capacitance; silver-plated OFHC ultra-fine stranded copper, with silicone insulation and Kevlar reinforcement; 2 meter length
Weight	399 grams (14 oz.), without cable

## ELECTRONICS SPECIFICATIONS:

Balanced Analog Inputs	Dual (female) XLR jacks; switchable (high / low) input range; 18 dBu / 10 dBu
Unbalanced Analog Inputs	Dual RCA jacks; switchable (high / low) input range; 5.0 V <sub>rms</sub> / 2.1 V <sub>rms</sub>
USB Digital Input	Type B jack; USB 2.0; accepts digital audio formats up to 32-bit / 384 kHz PCM and DSD (DSD64/DSD128/DSD256) via DoP or Native
Network (Ethernet LAN) Digital Input	RJ45 jack; DLNA-compatible; accepts digital audio formats up to 32-bit / 384 kHz PCM and DSD (DSD64/DSD128/DSD256) via DoP or Native
AES3 (AES/EBU) Digital Input	XLR (female) jack; accepts digital audio formats up to 24-bit/192 kHz PCM
S/PDIF Coaxial Digital Input	RCA jack; accepts digital audio formats up to 24-bit/192 kHz PCM
Line Outputs	Balanced and unbalanced, high current outputs; +5 dB gain; switchable
Digital Formats	PCM: 16-32 bit / up to 384 kHz; DSD: up to 256 f <sub>s</sub> , DoP and Native
Equalization	HP only: digital EQ (DSP) for PCM sources; analog EQ for analog and DSD sources
Digital Signal Processing (DSP)	64-bit (double-precision) fixed-point processing at native sample rates
Switchable Gain	Rear panel switch; high level / low level selection for balanced analog input (professional audio and consumer levels) and unbalance analog input
Source Selection	Multi-position front panel selector with indicator LEDs for all sources
Level Control	Front panel, 31-position; digital and analog domain volume control (HP & Line Out)
Status Display	Front panel, 51 mm, full color, QVGA, TFT LCD (240 x 320 pixels)
Display Functions	Digital readout and bar graph of volume control setting; display of digital audio data format; display of rear panel analog input (gain) settings; display of Ethernet and USB data link transmission lock; display of detected fault modes and output clipping
Auto Fault Detection	Automatic detection, display and protection for: output amplifier clipping, unplugged connections and malfunctioning wiring, over-temperature conditions and internal electrical faults
DACs	2 x dual mono, 32-bit / 384 kHz DACs with balanced outputs, for PCM & DSD inputs
Amplifier/Energizer	Balanced, discrete MOSFET, high-bias, single-ended Class A output; dual mono topology, including power supply; 1800 V <sub>bc</sub> bias (charge) voltage
Distortion + Noise	< 0.001%
Bandwidth	> 65 kHz
Enclosure	CNC-machined 6063 aluminum
Power Supply	External: world voltage compatible (90-264 Volt AC, 50-60 Hz); 24 Volt DC, 200 VA (8.333 A), fixed frequency, class B-compliant SMPS; Internal: isolated, dual mono; switching and ultra-low-noise linear regulation
AC Mains	Types B, G, F, I; IEC-60320 C14, earth-grounded power cable; 1.5 meter length
Dimensions	H x W x D: 68 mm (2.68 in.) x 413 mm (16.26 in.) x 351 mm (13.82 in.)
Weight	7.4 kg (16.28 lbs.), without Power Supply

NOTE: All specifications shown are subject to change without notice.