

Azimuth Optimizer

The Azimuth Optimizer is a precision measurement unit that for the first time makes it possible to exactly align the azimuth of the cartridge diamond (stylus) position. The stylus azimuth (the vertical position of the cartridge's diamond when viewed from the front) is the main influence on channel balance, frequency response and stereo separation of a stereo phono cartridge. Visual adjustment of azimuth is not accurate enough to ensure perfect stylus alignment. Exact azimuth can only be determined when

using a precision measuring instrument such as the Clearaudio Azimuth Optimizer. Furthermore a High-End phonostage is built in, so that the sonic effect of adjustment may be compared against the scientific measurement.

An integrated headphone amplifier makes mobile use of the Azimuth Optimizer possible.

Any headphones with an impedance of between 100 ohms and 600 ohms can be used.

Technical specifications:

Operating Voltage: 24V DC stabilised with power supply
Input: 100-240V AC / 47-63Hz
Inputs and Outputs: RCA-sockets, unsymmetrical

Phonostage:

Amplification: MM: 40dB, MC: 60dB
Channel separation: > 80dB
Distortion factor: (THD+N): < 0.01% / 1kHz
Input impedance / Capacitance: MM: 47k Ω / 220pF
MC: 400 Ω / 220pF
Output impedance: 100 Ω
Frequency response: 20Hz – 70kHz /-3dB
RIAA: RIAA +/- 0.5dB deviation

Headphone amplifier:

Amplification: 10dB
Headphone impedance: 100 – 600 Ω
Connection: 6.3 mm RCA jack

Measurement unit:

Indication range: -50 to +6dB, accuracy +/- 0.2dB
Maximum measurement. 19.99mV
Noise filter: from 200Hz / trans conductance 12dB per octave
(valid only for right channel when unit is in measurement use)
Dimensions: H x W x D 47mm x 102mm x 190mm
Weight: Azimuth Optimizer: 750g, Power supply: 150g

