

HANIWA

HEQA01

Haniwa Phono Equalizer Amp

Both Gain and Phase Frequency Curves are flat all through the audio bandwidth.



Playback Phase Deviation : less than ± 1 (20Hz - 20kHz)

Deviation from RIAA Curve : less than ± 0.2 dB

Built-In Demagnetizer

KUBOTEK

HANIWA

Cybernetic Audio System

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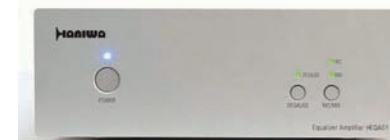


Phono Equalizer is used to recover the original sound signal from the RIAA modulated recorded signal. The conventional equalizers are designed for the precision of only the gain curve, and not much attention is paid to the phase shift happening while equalization. The circuit of HEQA01 is successfully suppressing this phase shift while pursuing the precise equalization. Accordingly, this is an ideal partner for HCTR01 (super low impedance MC cartridge) which is specifically designed to minimize the phase shift.

The equalizing circuit is NF+CR type, adjusting the lower frequency range to RIAA curve by NF low boost circuit, and then rolling off the high frequency range by CR circuit. It uses the highest quality chips for its circuit to maximize its performance, such as, AD797 based input buffer and OPA627 based NF low boost and output buffer circuits.

Due to this phase sensitive design policy, the output from the RIAA equalization has flat gain and phase curves over full range of audio bandwidth, boosting less than $\pm 1^\circ$ phase deviation over 20Hz through 20kHz, and RIAA deviation of less than ± 0.2 dB. It also has the built-in demagnetizer, which can be activated while the playback, by simply pushing the Degauss Button on the panel, which shunts the circuit to release the core magnetization.

Input	M M	M C
Input Sensitivity	2.5mV	0.25mV
Input Impedance	47k Ω	4 Ω
Gain	36dB	62dB
Max Input Rating	160mV	8.5mV
Max Output Voltage	200mV	
RIAA Curve Deviation	less than ± 0.2 dB (20~20kHz)	
Output Phase Shift	less than $\pm 1^\circ$ (20~20kHz)	
Size (WxHxD)	223 x 83 x 370 mm	
Weight	4.6kg	



HEQA01 Front View



HEQA01 Rear View

CONTACTS

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[The contents of this document are subject to change without prior notice.]