

CEC.

PHONO PRE AMPLIFIER

PH53

Matches with both MM and MC cartridges

State-of-the-art current injection technology

Features CEC's unique LEF circuit

RIAA equalization with the Neumann extension



The compact-sized phono preamplifier offers a wide range of settings to optimise your cartridge's performance.

PH53 is a state of the art phono amplifier. The unique balanced current injection input for a wide range of MC cartridge and the LEF amplifier technology for the output stage provide today's top level sound quality. Also standard RCA input for unbalanced use with MM or MC cartridge is available. All amplifier sections run without any overall negative feedback. Thus the amplifier creates no dynamic distortions.

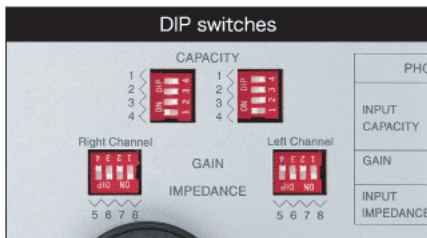


Matching with every cartridge

PH53 is compatible with both MM and MC cartridges and allows precise settings with DIP switches on its bottom panel. Input capacity for MM cartridge is adjustable to around 47pF to 884pF with 4 switches per channel in addition to cable capacitance. Also input impedance is adjustable to 100Ω that is a common value for most MC cartridges or to 1kΩ that is a standard value for most high output MC cartridges. Input impedance for MM cartridges is fixed at 47kΩ with all the switches open. Gain switches are also applied increasing the gain by 6dB for low MM and high MC, or 20dB for low MC.

* Inputs include jacks for XLR balanced current injection or unbalanced RCA. Output signals are always available balanced and unbalanced, regardless of the input.

* Always use one input only!



State-of-the-art Current Injection technology

Current Injection is a landmark technology for shortening the signal path, improving the sound quality and measurement specs significantly. The effective simplicity of Current Injection requires a non-feedback-loop amplifier. While Current Injection replaces the voltage amplifier, LEF guarantees best performance of the current amplifier with low THD. Both technologies complement each other and overcome the limitations of traditional circuitry to a better standard of music reproduction. This is applicable when using balanced MC input. The maximum performance of MC cartridge is attained because neither a redundant amplification stage nor negative feedback are present in this method, and an outstanding capability for musical expression is achieved without sacrificing measurement specs.

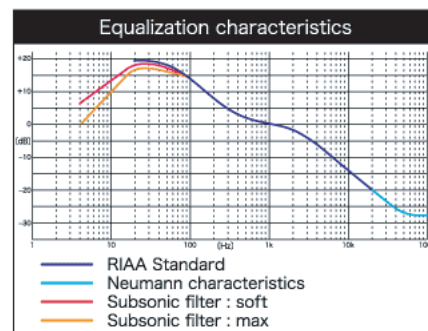
* Not applicable for RCA input.

CEC's unique LEF circuit

DA53 features CEC's unique LEF (Load Effect Free) circuit that virtually eliminates the causes of musical degradation. High efficiency is achieved with this LEF circuit along with the acquisition of delicate, subtle sound reproduction. The music reproduction appeals to the senses, forgetting about a performance of technical equipment. The original sound is reproduced in highest fidelity.

RIAA equalization with the Neumann extension

PH53 uses RIAA equalization with Neumann extension. The Neumann time constant or some equivalent is used on almost all recordings. RIAA with the Neumann extension allows a wider top frequency extension. According to the RIAA the frequency response drop down from 20kHz on. Beyond 20kHz the Neumann character shows a gradual decline and then flat.



PH53 also has a subsonic filter for preventing large woofer excursions and muddiness in the midrange due to mechanical vibration noise signals that are found below 15Hz. You can select from two different downward curves, soft and maximum reduction.

PH53 Specifications

Input sensitivity	<p>RCA: 12.5mVrms/1kHz (6.5mVrms at High gain)</p> <p>+6dB RCA: 6.7mVrms/1kHz (3.5mVrms at High gain)</p> <p>+16dB RCA: 2.2mVrms/1kHz (1.1mVrms at High gain)</p> <p>XLR: Depending on voltage and impedance of the moving coil cartridge.</p>
Input impedance	<p>RCA: 47kΩ, switchable to 1kΩ & 100Ω</p> <p>XLR: Approx. 10Ω</p>
Subsonic filter	<p>SOFT: -6dB/10Hz, -12dB/5Hz, -22dB/3Hz, -36dB/2Hz</p> <p>MAX: -9dB/10Hz, -18dB/5Hz, -32dB/3Hz, -48dB/2Hz</p>
Equalization Filter	<p>RIAA with Neumann time constant, ±0.25dB</p>
Input	<p>Balanced MC x 1 or unbalanced RCA MM/MC x 1</p> <p>* Always use one input only.</p>
Output	<p>Balanced XLR and unbalanced RCA</p>
Power consumption	<p>10W</p>
Power supply	<p>AC100V - 240V, 50/60Hz</p>
External dimensions	<p>217.5(W) x 257(D) x 57(H)mm (excl. jacks and buttons)</p>
Weight	<p>2kg</p>
Accessories	<p>AC power cord, owner's manual</p>

*Specifications and design are subject to change without notice.



Safety Precautions

Be sure to operate this product properly once you have thoroughly read the owner's manual.

