KRELL®

KPE & Phono Systems

The pursuit of fine music for the home is never ending. It leads us searching for ever improved methods of storing and replaying musical performances. The latest revolution in musical storage and playback is, of course, digital.

At Krell we believe that all music is precious, regardless of how it was recorded or where it is stored. Therefore, we have continued our relentless development of RIAA equalization and phono preamplification for the massive volumes of music that remain on vinyl.

Our latest achievement is the Krell Reference Phono Preamplifier. Designed for moving coils, the most accurate group of cartridges, it offers significant advancements in the two most difficult aspects of these sensitive components: high gain and low noise.

It begins with a revolutionary hi-gain hybrid composite amplifier input stage which uses two cascaded amplification levels to achieve extreme overall gain (76dB) with a correspondingly low inherent noise level (- 80dB). The gain level is user-selectable from 58 to 76dB in 6dB increments to accommodate any cartridge.

The hybrid composite amplifier is fully buffered from the RIAA network to present a constant impedance to the network. The entire amplification group is shielded in mu-metal for nearly complete cancellation of RF, 60Hz noise and its harmonic components.

The RIAA network has passive equalization for high frequencies. This provides greater accuracy (+/- 0.05dB) than through active circuits and removes this phase sensitive information from the feedback loop employed in the active low frequency equalization. This hybrid composite design provides optimal equalization and reduces the overall demand placed on a typical equalization/gain stage topology.

The performance achieved with the Reference phono stage and low output/low impedance cartridges is nothing short of astounding. Low level detail is unmasked from background noise while high frequency accuracy reveals the depth and width of the actual sound stage. Vocal performances are recreated with the lushness and vibrancy so often lacking through other preamplification stages. Low frequency response is robust, complete with all the energy and excitement involved with this spectrum.

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The Krell Reference Phono Preamplifier is available as an internal unit for insertion in the KRC and KSL-2 or as a stand alone external unit mounted within the KPE chassis. When the KPE is used with the KRC-2, the Krell Reference Phono Preamplifier does not require the external power supply, as it is powered directly from the DC output of the KRC-2.

The standard Krell Phono Preamplifier, which supports both MM and MC cartridges, is available in the same configurations as the Reference unit. Both versions offer a wide range of impedance selection for precise cartridge/phono preamplifier matching.

SPECIFICATIONS

Reference Phono Preamplifier
For moving coil cartridges only

Gain: *58dB to 76dB in 6dB increments*

S/N: *-80dB; A weighted*

Frequency Response: *20Hz to 20KHz, +/- 0.1dB*

THD: *<0.1%, 20Hz to 20KHz*

Crosstalk: *>-80dB (lower than the noise floor of the phono stage)*

Input Impedance: *10 ohms-47K ohms*

Phono Preamplifier
For moving coil and moving magnet cartridges

MC Gain: *64.5dB*

MC S/N: *-71dB; A weighted*

MM Gain: *36.5dB*

MM S/N: *-89dB; A weighted*

Frequency Response: *20Hz to 20KHz, +/- 0.2dB*

MC THD: *<0.1%, 20Hz to 20KHz*

MM THD: *<0.01%, 20Hz to 20KHz*

MM Capacitance: *1,600pf fixed*

Input Impedance: *10 ohms-47K ohms*

Dimensions: *For KPE, KRC & KSL-2: Circuit board of either Phono Preamplifier mounts internally*

KRC-2: *12"D x 7.125"W x 2.375"H*

KPE: *12"D x 7.125"W x 2.375"H*

Optional power supply available for use as a stand-alone phono preamplifier with other preamplifiers.

Krell reserves the right to change the features, specifications and price of this product without notice.

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KRELL ▪ 45 Connair Road ▪ Orange, CT 06477
Sales: 203-799-9954 ▪ FAX: 203-799-9796