

Krell Playback Systems

The KPS-30i

Integrated CD Transport/Processor





In recent years Krell has contributed major advancements to the art of digital audio. In particular, our KPS-20 series has been universally recognized as the finest available, in both construction and sound quality. The KPS-30i was designed with mechanical principles developed for the KPS-20 series and utilizes the identical digital processing and analog output stages.

Reading the Disc

An accurate read of the CD data is critical to sonic quality. The ability of the transport to accomplish this is highly dependent on its ability to insulate the laser assembly from its environment. The KPS-30i transport mounting is constructed with three layers of isolation. The transport is fitted to a 1.25 lb. block of solid aluminum to create a stable, inert platform. This assembly, and the main chassis itself, is then suspended by special low-stored-energy feet. External energy transfer, either airborne or mechanical, is effectively blocked from interfering with the disc reading process.

The Philips CDM-12 transport is used for its accurate linear tracking and

fast access response.

Also contributing to an extremely accurate read is the disc stabilizer. Magnetic force is used to clamp the disc to the transport rather than a large weight, which can negatively influence the transport motor's speed tracking capability.

Processing Power

The KPS-30*i* is built with the processing, software and DAC stages developed for the KPS-20*i*. The processor is from the Motorola 56000 family and operates at 66MHz. The exceptional speed of this processor allows for very sophisticated reconstruction software. This advanced software provides for calculating far more accurate oversampled points than is

possible with mainstream technology. Its 24-bit reconstructive software and high volume oversampling restores the details and natural staging information so tenuously captured on a CD.

This accurate data is preserved in the critical digital-to-analog conversion process by the use of four differentially configured Burr-Brown PCM-63 20-bit CoLinear® DACs. Used two per channel, these DACs are perfectly suited to this application due to their inherent linearity and ability to handle the large quantity of data coming from the processors.

Back to Analog

The finest digital reconstruction techniques can be completely compromised by poor analog outputs. The KPS-30*i*, however, is built with classic Krell analog technology. All circuits are high bias Class A, discrete, direct-coupled and complementary.

The KPS-30*i* also allows input of other digital sources in a variety of formats. Digital outputs are provided as well, for recording in the digital domain.

Integrated Design

Although the conventional CD player has a transport and D/A processor in one chassis, the KPS-30i is fundamentally different. The KPS-30i integrates transport and processor subassemblies that are individually capable of performing at a reference level. A number of benefits accrue from this technique. On a practical level, cost is significantly reduced by using a common chassis and power supply. In terms of performance, jitter is completely eliminated by virtue of the internal transport/processor connection. These two key features combine with a number of others to make the KPS-30/ competitive with units selling at a much higher price.

Ultimately, two measurements define the real worth and value of an audio component: The quality of its musical presentation and long term pride of ownership. By these criteria, or any other, the KPS-30i is at the very top of its

category.

Specifications

Processor -

1 Motorola DSP-56000 Series-66MHz, 24 bit, 56 Bit Accuracy

Software and Oversampling 16x Krell written 24 bit algorithms

DAC & Configuration 4 Burr Brown, 20 bit PCM-63 2 per channel

Frequency Response +0.0, -.18dB, 20Hz-20KHz

Distortion -85dB @ 1KHz

Signal to Noise, A Weighted 109dB

HDCD Optional

Power Supply 100 VA

Power Consumption 36 watts

Inputs 2 coax, 1 EIAJ, 1 AES/EBU

Outputs 1 coax, 1 EIAJ, 1 AES/EBU

Dimensions 19"W x 15.5"D x 4.7"H

Weight Unit: 25lbs. Packed: 33 lbs.

Warranty Five years parts and labor on electronic parts

Three years parts and labor on transport-related parts

Kiell merres the right to change the futures, questionation and price of this product without notice.





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