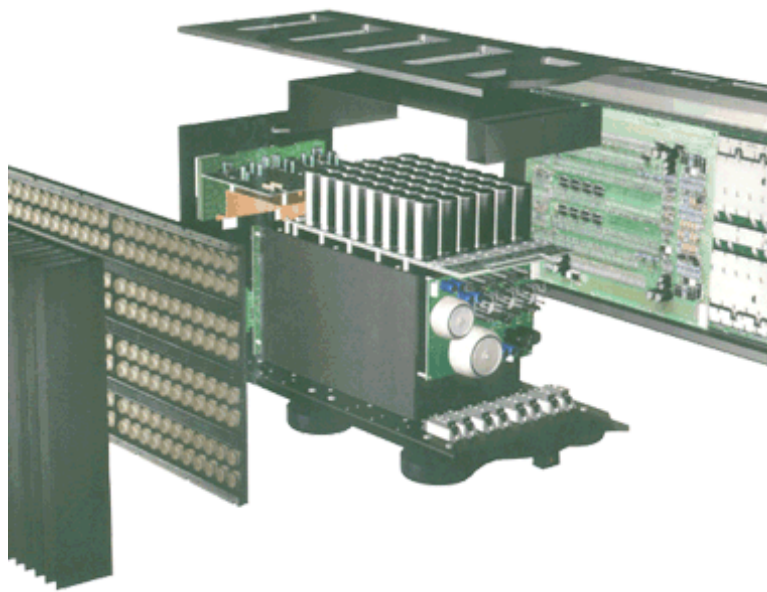


Welcome to **KRELL**



KRELL
THE LEADER IN AUDIO ENGINEERING

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FEATURES

The Master Reference Amplifier continues the tradition of excellence that began with the first Krell amplifier, the KSA-100, in 1980. Shortly after its introduction the KSA-100 earned reference status in the industry and was used as a benchmark against which other amplifiers were judged. Since that time several of Dan D'Agostino's other Krell designs--the KRS 100, KRS 200, and Audio Standard models--have advanced to become benchmark power amplifiers. Now the Master Reference Amplifier delivers the highest levels of performance in subjective sound quality and objective measurement performance.

Features that make the Master Reference Amplifier the largest and most powerful amplifier include innovative technologies for controlling the vast power the amplifier generates and for handling CAST, developed by Krell for its unprecedented accuracy of signal transfer.

The Master Reference Amplifier brings a new level of performance to sound reproduction. Its tremendous power (exceeding 1,000 W into 8 Ohms, 2,000 W into 4 Ohms, 4,000 W into 2 Ohms, 8,000 W into 1 Ohm, and 16,000 W into .5 Ohm) gives the listener the freedom to enjoy unconstrained sound reproduction. The technological innovations that manage these large amounts of power are transparent to the user.

The Master Reference Amplifier sets a new standard for output drive, assuring that no matter how much power is needed, it will always be available and appropriate. Crucial to managing this power is software-based control, an onboard microprocessing module unique to the Master Reference Amplifier. This

Unique Model Series

Master Reference Amplifier

MRA

The basic function of the Krell Master Reference Amplifier (MRA) is to emulate a pure voltage and current source and to provide a super-abundant amount of accurate power into any impedance load, virtually ensuring maximum performance from every speaker system.

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removable/interchangeable plug-in module, called a software key, can be individually programmed, allowing the Master Reference Amplifier to be customized to match the impedance curve of any given loudspeaker. In addition, this microprocessor-controlled, fully active regulation enables the Master Reference Amplifier to develop full power into the most demanding loads, with no drop in current or voltage. Only the Master Reference Amplifier has this feature, which continually monitors and adjusts the power source to compensate for even the smallest variation in current or voltage.

A new Krell technology contributes to the Master Reference Amplifier's superiority and further enhances Master Reference Amplifier performance when connected to appropriately equipped Krell source components. CAST, Current Audio Signal Transmission, has been developed to send audio signals from component to component without introducing the negative effects of interconnect cables into the signal, i.e., loss of gain, reduced slew rate, and tonal coloration. Moreover, it reduces the number of total gain stages in the system and unifies each component in the system. CAST technology serves as a current gain interface and preserves current gain circuitry throughout the entire system. This has never been possible before CAST technology because conventional audio components and interconnect cables interface via voltage gain. The preamplifier has high output impedance and delivers current, not voltage, to the amplifier. The amplifier's input senses and amplifies this current, which is not altered by interconnect cable's impedance characteristics because the cable impedance and reactive effects are reduced to at least a million times less than the total system impedance. CAST ensures that interconnects cable lengths and characteristics do not degrade the signal quality. As a result, listeners can employ long cable runs and still maintain signal integrity. This means listeners can place components where they wish to place them. CAST technology also renders obsolete the mysterious art of "matching" components and interconnect cables to achieve certain desired sonic results. CAST delivers accurate signal transmission without sonic coloration and takes the "guesswork" out of installing a reference system.

The Master Reference Amplifier's ability to resolve detail, recreate holographic imaging, convey impact, and preserve tonal balance is unparalleled. The basic function of the Master Reference Amplifier is to emulate a pure voltage and current source and to provide a superabundant amount of accurate power into any impedance load, ensuring maximum performance from every speaker system. The core technologies applied in the Master Reference Amplifier focus on this goal.

The Krell Current Mode gain stages within the Master Reference Amplifier ensure high quality sound performance. These stages operate in current mode, rather than voltage mode amplification. This is accomplished by parallel operation of many small signal transistors, which are selected specifically for their low self-noise, wide bandwidth, and high linearity. Krell Current Mode operation significantly boosts output drive capability. At the same time, the low impedance intrinsic to Krell Current Mode operation minimizes noise and preserves wide bandwidth operation.

Class A operation is by far the most desirable for performance, but pure Class A can cause reliability problems along with environmental and economic ones. The Master Reference Amplifier employs Class A operation managed by Sustained Plateau Bias II circuitry.

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