

# KRELL

THE LEADER IN AUDIO ENGINEERING



**K**rell Industries, Inc. designs and manufactures high performance audio and video equipment for serious music enthusiasts and home theater aficionados. Every Krell component is a unique synthesis of science and art that allows for unmatched sonic realism. Recorded performances are, by their very nature, works borne of passion. Our goal is to bring that passion to life in your home.

Krell Master Series products represent the ultimate realization of Krell design and engineering. The Master Reference Amplifier is the result of a truly unfettered design effort that defines the category of Master. Through the rigorous process of designing Master Series products, Krell engineers are able to forge the technologies that make the Class A and KAV lines possible.

Class A power amplifier design has been a Krell tradition since the company's inception in 1980. Class A Series components are performance leaders in their respective product categories. Featuring incomparable build quality and superior circuit topologies,



Class A products are the driving force of reference quality audio systems worldwide.

KAV Series products incorporate the core elements of Krell engineering to deliver the highest quality and performance demanded by today's dynamic market. Both the KAV-300iL and the Home Theater Standard 7.1 are leaders of a complete series of audio and video components that deliver Krell performance and outstanding value for contemporary home entertainment systems.

Now, with the introduction of the DVD Standard, a reference quality video source component, and the LAT Loudspeakers, my vision of a home entertainment system is complete. From input to output, from source to loudspeakers, Krell components reproduce the definitive music and home theater experience based on the principles of innovative engineering, impeccable build quality, and unerring accuracy in sonic reproduction.

## TECHNOLOGIES & INNOVATIONS

### **Krell Architech Construction**

Krell Architech construction is a Krell mechanical design criterion that ensures each Krell product meets the highest standards of structural integrity. Chassis material of robust, heavy gauge aluminum provides long life and durability as well as a distinctive look and feel. High tolerance machining and liberal use of flight-certified fasteners reduce or eliminate undesirable vibrations. Built to last a lifetime, Krell products with Architech construction enhance your listening experience every time you use them.

### **Krell CAST II**

CAST, Current Audio Signal Transmission, is a Krell proprietary technology for connecting analog components that provides the most accurate signal transfer from one component to the next. It utilizes the sonic purity of current and eliminates signal degradation caused by cable interaction while transmitting signals in voltage. A new circuit based on the topology used in the Master Reference Amplifier, CAST II greatly increases the input stage bandwidth of the Full Power Balanced X Series amplifiers.

### **Krell Current Mode**

A topology designed by Krell and used in amplifier, preamplifier, and source components circuitry to ensure accurate signal reproduction. The gain stages achieve high current drive capability without resorting to large signal transistors that invariably increase noise and distortion.

### **Krellcoat Finish**

For over twenty years Krell has been designing components that set the standard not only for audio engineering but also for innovative aesthetic design. Krell's experience and knowledge has been distilled into a new process called Krellcoat finish. Krellcoat finish gives Krell components a look that is timeless, with a feel that is inviting—and built to last.

### **Sustained Plateau Bias III**

A patented microprocessor control system that maintains Class A bias operation regardless of musical demand. Class A bias is the most accurate method used to amplify musical signals. The new Sustained Plateau Bias III software is featured in the Full Power Balanced X Series amplifiers and was developed from the algorithm utilized in the Master Reference Amplifier. Sustained Plateau Bias III maximizes an amplifier's efficiency both in power consumption and heat generation.

### **Theater Throughput**

The unique Theater Throughput feature facilitates easy integration of Krell stereo preamplifiers and integrated amplifiers into home theater systems. In Theater Throughput mode, the main output signal from an external surround sound processor bypasses the volume and balance controls, providing a direct connection to the amplifiers powering the front left and right speakers.

# CLASS A SERIES



## **Full Power Balanced 750Mx Monaural Power Amplifier**

750 W, 1500 W, 3000 W (8, 4, 2  $\Omega$ )  
Class A circuitry, CAST II technology,  
Sustained Plateau Bias III.

12.5 x 10.5 x 25 in.  
31.8 x 26.7 x 67.3 cm  
140 lb. / 63.6 kg



## **Full Power Balanced 450Mx Monaural Power Amplifier**

450 W, 900 W, 1800 W (8, 4, 2  $\Omega$ )  
Class A circuitry, CAST II technology,  
Sustained Plateau Bias III.

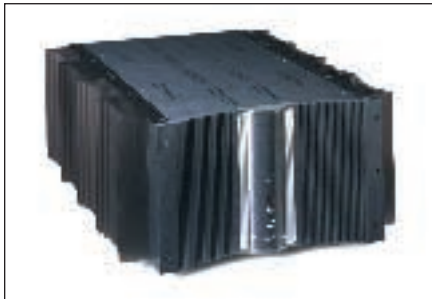
12.5 x 10.5 x 19 in.  
31.8 x 26.7 x 48.3 cm  
98 lb. / 44.5 kg



## **Full Power Balanced 350Mx Monaural Power Amplifier**

350 W, 700 W, 1400 W (8, 4, 2  $\Omega$ )  
Class A circuitry, CAST II technology,  
Sustained Plateau Bias III.

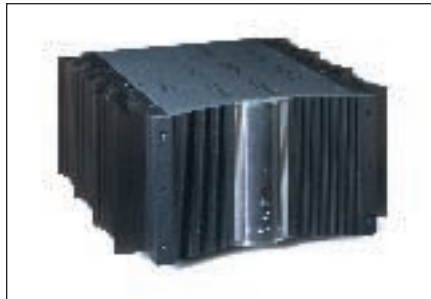
12.5 x 10.5 x 16 in.  
31.8 x 26.7 x 40.6 cm  
68 lb. / 31 kg



## **Full Power Balanced 700cx Stereo Power Amplifier**

700 W, 1400 W, 2800 W (8, 4, 2  $\Omega$ )  
Class A circuitry, CAST II technology,  
Sustained Plateau Bias III.

19 x 10.3 x 25.5 in.  
48.3 x 26.2 x 64.8 cm  
180 lb. / 81.8 kg



## **Full Power Balanced 400cx Stereo Power Amplifier**

400 W, 800 W, 1600 W (8, 4, 2  $\Omega$ )  
Class A circuitry, CAST II technology,  
Sustained Plateau Bias III.

19 x 10.3 x 19.7 in.  
48.3 x 26.2 x 50 cm  
110 lb. / 50 kg



## **Full Power Balanced 300cx Stereo Power Amplifier**

300 W, 600 W, 1200 W (8, 4, 2  $\Omega$ )  
Class A circuitry, CAST II technology,  
Sustained Plateau Bias III.

19 x 10.3 x 17 in.  
48.3 x 26.2 x 43.2 cm  
90 lb. / 50 kg



## **KPS 25sc Krell Playback System**

CD transport, 24-bit/96K DAC, integrated  
digital and analog preamplifier. CAST  
technology, Krell Current Mode, balanced  
circuitry, Theater Throughput.

19 x 5.3 x 15.4 in.  
48.3 x 13.5 x 39.1 cm  
45 lb. / 20.5 kg



## **KPS 28c Compact Disc Player**

24-bit DAC, CAST technology, Krell  
Current Mode, balanced circuitry, 12 VDC  
trigger.

19 x 4.4 x 14.5 in.  
48.3 x 11.2 x 36.8 cm  
23.5 lb. / 10.7 kg



## **KCT Krell Current Tunnel Stereo Preamplifier**

CAST technology, balanced circuitry.  
Menu display with remote control. Dual  
zone, RS-232, Theater Throughput.

19 x 4.2 x 14.5 in.  
48.3 x 10.7 x 36.8 cm  
25.5 lb. / 11.6 kg

Component dimensions are described by width x height x depth. All power ratings are per channel.

# KAV HOME THEATER



## DVD Standard Progressive DVD/CD Player

Faroudja DCDi technology, triple 11-bit video DACs, RGBHV, VGA, YPbPr outputs, 24-bit/192 kHz DACs, Krell Current Mode, discrete Class A balanced outputs, bi-directional RS-232 control, Crestron I<sup>2</sup>P, 12 VDC trigger.

17.3 x 5.7 x 16.8 in.  
43.8 x 14.4 x 42.7 cm  
20 lb. / 9.1 kg



## Home Theater Standard 7.1 Surround Sound Preamp/Processor

Two zone preamp/processor with Class A preamp circuitry, Krell Current Mode topology, wideband balanced audio circuitry, Analog Throughput, wideband component video circuitry, Smart System Setup. 7-channel digital room EQ, bidirectional RS-232 control, Crestron I<sup>2</sup>P, 12 VDC triggers, Future-proof: Hardware and software upgradable via flash memory.

17.3 x 5.7 x 16.3 in., 43.8 x 14.4 x 41.4 cm  
30 lb. / 13.6 kg



## Theater Amplifier Standard

200 W, 400 W, 800 W (8, 4, 2  $\Omega$ )  
Krell Current Mode topology, balanced inputs, bridgeable, 12 VDC trigger, surface mount technology, DB-25 input.

17.3 x 9.8 x 17.0 in.  
44.0 x 24.9 x 43.2 cm  
100 lb. / 45.4 kg

**NEW**



## Showcase 5/6/7 Multichannel Amplifiers

125 W, 250 W (8, 4  $\Omega$ ) Krell Current Mode Topology, balanced inputs, bridgeable, 12 VDC trigger, surface mount technology, additional amplifier channels can be added to the Showcase 5 and Showcase 6 at anytime.

17.3 x 5.7 x 19.6 in.  
44.0 x 14.4 x 49.8 cm  
Showcase 5: 56 lb. / 25.3 kg  
Showcase 6: 58 lb. / 26.2 kg  
Showcase 7: 60 lb. / 27.1 kg

**NEW**



## Showcase Surround Preamp/Processor

Advanced preamp/processor with complete 7.1 processing, Class A preamp circuitry, Smart System Setup, stereo and multichannel Analog Throughput, balanced inputs/outputs, 7-channel digital room EQ, wideband component video circuitry, bi-directional RS-232 control, 12 VDC triggers. Software upgradable via flash memory.

17.3 x 5.7 x 16.3 in.  
44.0 x 14.4 x 41.4 cm  
19.3 lb. / 8.8 kg



## KAV-3250 Three-channel Power Amplifier

250 W, 500 W (8, 4  $\Omega$ ), Krell Current Mode topology, balanced inputs, bridgeable, 12 VDC trigger, surface mount technology.

17.3 x 5.7 x 17 in.  
44.0 x 14.4 x 43.2 cm  
68 lb. / 30.9 kg

# KAV STEREO



## **KAV-280cd** **Compact Disc Player**

Krell Current Mode topology, disc clamping mechanism, balanced outputs, 8x DSP-based processor, 4 individual 24-bit DACs, 12 VDC trigger, CD-R and CD-RW compatible, surface mount technology.

17.3 x 3.5 x 16.3 in.

44.0 x 8.9 x 41.4 cm

13.5 lb. / 6.1 kg



## **KAV-300iL** **Integrated Amplifier**

200 W, 400 W (8, 4  $\Omega$ ) Theater Throughput, remote control, balanced inputs, 12 VDC trigger, surface mount technology.

17.3 x 3.5 x 17 in.

44.0 x 8.9 x 43.2 cm

30 lb. / 13.6 kg



## **KAV-2250** **Stereo Power Amplifier**

250 W, 500 W (8, 4  $\Omega$ ), Krell Current Mode topology, balanced inputs, bridgeable, 12 VDC trigger, surface mount technology.

17.3 x 5.7 x 17 in.

44.0 x 14.4 x 43.2 cm

60lb. / 27.3 kg



# MASTER SERIES



## **MRA** **Master Reference Amplifier**

The Master Reference Amplifier is the latest evolution of Dan D'Agostino's passion for the research and development of reference caliber, high power, high resolution monaural amplifiers. The MRA is capable of generating near-lifelike sound pressure levels, tonal accuracy, and resolution of detail. Its purpose is to provide unlimited power with absolute accuracy for the ultimate control of any loudspeaker.

25.5 x 18.5 x 35.0 in.  
64.8 x 47.0 x 88.9 cm  
683 lb. / 310 kg



## **MRS** **Master Reference Subwoofer**

The Master Reference Subwoofer is without peer among low-end transducers. With a specially tuned, 2600 Watt Krell amplifier at its heart, the Master Reference Subwoofer is capable of devastating bass reproduction. Its 1" thick aluminum housing is impeccably finished and loaded with two 15" high-excursion drivers. Equipped with a Krell designed, active, fully programmable built in crossover, the Master Reference Subwoofer is at home in the most exotic music and home theater systems alike.

Frequency Response: 20 Hz-100Hz +/- 0.6 dB, -3 dB @ 14 Hz  
18.8 x 20.1 x 28.5 in.  
47.8 x 51.1 x 72.4 cm  
396 lb. / 180 kg

# LAT SERIES TECHNOLOGY

The Lossless Acoustic Transducer (LAT) Series of loudspeakers share a number of advances that result in their tremendous sound quality. Fabricated from 1-1/2" of solid aluminum, the LAT cabinet is the most inert enclosure possible. The curved cabinet construction eliminates internal standing waves and external high frequency diffraction. Custom-made gold plated brass binding posts are included for maximum signal transfer.

The crossovers feature amplifier grade circuitry for maximum power handling and unrestricted dynamics. Individually printed circuit boards are fashioned from 1/8" glass epoxy, with four

ounce copper traces for superior current flow. Air core inductors and banks of potted WIMA capacitors guarantee high linearity during high power output. The tweeter is a waveguide design, devoid of ultrasonic resonance with a response flat to 50 kHz. A cast magnesium frame, proprietary suspension, and a segmented cone reduces self-induced resonance and reflections in the midrange drivers. Custom-designed composite carbon fiber woofers are made for Krell and are matched specifically to the LAT enclosure. The loudspeakers are available in black or silver.

# LAT SERIES



## LAT-1 Loudspeaker

A three-way floor standing loudspeaker with three 8" woofers, two 5.25" midranges, and one 1" tweeter in a D'Appolito array. A special aluminum sub-enclosure houses the midrange and tweeter, isolating them from the main cabinet. Crossover circuitry is divided among three assemblies — one each for the woofer, midrange, and tweeter networks. Articulating spikes allow precise leveling for the most accurate imaging. *(Shown without the grille.)*

Sensitivity: 91 dB (2.83 V @ 1 m), 4  $\Omega$  nominal impedance

Frequency response: 35 Hz-25 kHz, +/- 3 dB

14.7 x 54.6 x 14.7 in. / 37.3 x 138.7 x 37.3 cm

250 lb. / 113.6 kg



## LAT-2 Loudspeaker

A two-way loudspeaker with one 7" woofer and one 1" tweeter in a dual ported cabinet. Second order Bessel crossover preserves phase coherence and optimizes power response. Optional stands (*shown*) are constructed from a carbon fiber composite and are acoustically and aesthetically matched to the LAT-2. *(Shown without the grille.)*

Sensitivity: 87 dB (2.83 V @ 1 m), 6  $\Omega$  nominal impedance

Frequency response: 45 Hz-25 kHz, +/- 3 dB

10.4 x 14.0 x 14.0 in. / 26.4 x 35.6 x 35.6 cm

75 lb. / 34 kg



## LAT-C Loudspeaker

A three-way center channel loudspeaker with two 8" woofers, two 5.25" midranges, and one 1" tweeter configured for center channel operation. Voiced to be a perfect match for the LAT-1, the crossover is optimized for maximum performance in a horizontal position. Multi-position stand provides flexibility in placement. *(Shown without the grille.)*

Sensitivity: 89 dB (2.83 V @ 1 m), 4  $\Omega$  nominal impedance

Frequency response: 50 Hz-25 kHz, +/- 3 dB

40.9 x 16.0 x 17.0 in. / 104.0 x 40.6 x 43.2 cm (*loudspeaker and stand*)

200 lb. / 91 kg

## KSC Speaker Cable (Available in pairs, in lengths of 8, 10, 12, and 15 feet.)

First developed for use between Krell amplifiers and LAT loudspeakers, KSC improves the performance of any system and is noteworthy for its ability to transmit the full range of the musical signal. The internal cable is comprised of three different groups of pure oxygen free copper wire. The cable's inner core has three 18-gauge solid copper conductors wrapped with fifteen 24-gauge solid copper conductors. The outer section is an ultra fine Litz cable that tightly wraps both inner bundles of solid core conductors.

Component dimensions are described by width x height x depth. All power ratings are per channel.

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