



**KRELL**  
THE LEADER IN AUDIO ENGINEERING



**Krell 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 Evolution Series** products represent the supreme realization of Krell design and engineering. The Evolution One amplifier and Evolution Two preamplifier are the result of over 25 years in the pursuit of the ultimate listening experience. The formidable engineering efforts required to bring Evolution products into existence extend to the Class A and KAV series components making for unparalleled performance in their classes.

**Krell Class A Series** components are performance leaders in their respective product categories. Class A power amplifier design has been a Krell tradition since the company's inception in 1980.

Featuring incomparable build quality and superior circuit topologies, Class A products are the driving force of reference quality audio systems worldwide.

**Krell KAV Series** products incorporate the core elements of Krell engineering to deliver the highest quality and performance demanded by today's dynamic market. The KAV 400xi and SACD Standard are leaders of a complete series of audio and video components that deliver Krell performance and outstanding value for contemporary home entertainment systems.

The introduction of the upgraded Krell LAT Series loudspeakers dramatically improves an already recognized world-class loudspeaker array. The Resolution Series source design elements directly from the LAT Series to offer unmatched performance in their class. When coupled to the reference quality DVD Standard, the HTS 7.1 surround preamp/processor, and the appropriate Krell amplifiers, my vision of a complete, totally integrated, Krell home entertainment system is realized. 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. 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. Realizing the entire design in the current domain eliminates the sonic degrading nature of circuit boards and increases the overall bandwidth. The greater bandwidth, all Krell compo-

nents have a bandwidth greater than 300KHz, results in near flawless reproduction in the audible range.

### **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 maximizes an amplifier's efficiency both in power consumption and heat generation, and is featured in the Full Power Balanced X Series amplifiers.

### **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.

### **Krellcoat Finish**

For over 25 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.

*On the cover: Evolution Two preamplifier with diamond-cut silver finish, in the operational mode.*

# CLASS A SERIES



## Full Power Balanced 750Mcx Monaural Power Amplifier

750 W, 1500 W, 3000 W (8, 4, 2 Ohms)  
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 450Mcx Monaural Power Amplifier

450 W, 900 W, 1800 W (8, 4, 2 Ohms)  
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 350Mcx Monaural Power Amplifier

350 W, 700 W, 1400 W (8, 4, 2 Ohms)  
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 Ohms)  
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 Ohms)  
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 Ohms)  
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

## CAST AND CLASS A

**Krell 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 heart of reference quality audio systems worldwide.

The Krell CAST II System featured at the right include the Krell KCT Stereo Power Amplifier (top) and the Krell Full Power Balanced 700cx Stereo Power Amplifier, a powerful combination that produces music without compromise.



## 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

*All Class A Series components are available in a luxurious black finish.*

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

# KAV HOME THEATER

Krell KAV Series home theater and stereo products incorporate the core elements of Krell engineering to deliver the exceptional

quality and performance demanded by today's dynamic market.



## 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, 8-channel digital room EQ, bi-directional RS-232 control, Crestron I<sup>2</sup>P, 12 VDC triggers, software upgradeable 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 Ohms) 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



## Showcase DVD

### Progressive DVD/CD Player

480p / 720p / 1080i HDMI digital video output stage (optional), Krell high bandwidth circuit architecture, Krell Current Mode, discrete Class A balance outputs, RS-232, 12V trigger.

17.3w x 3.5h x 17d in.  
43.9w x 8.9h x 43.2d cm



## 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, 8-channel digital room EQ, wideband component video circuitry, bi-directional RS-232 control, Crestron I<sup>2</sup>P, 12 VDC triggers. Software upgradeable 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



## Showcase Multichannel Amplifier

125 W, 250 W (8, 4 Ohms) Krell Current Mode Topology, balanced inputs, 12 VDC trigger, surface mount technology. Available in 5-channel, 6-channel, and 7-channel configurations.

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

*All KAV Series components are available in Krellcoat, and a luxurious black finish.*



**KAV-3250**

**Three-channel Power Amplifier**

250 W, 500 W (8, 4 Ohms), 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



**SACD Standard**

**SACD/CD Player**

Krell-designed DAC reconstruction filters, Krell Current Mode, discrete Class A balanced output, multi-channel output, chassis-in chassis construction, RS-232, 12 VDC trigger.

17.3 x 5.7 x 17 in. / 44.0 x 14.4 x 43.2 cm

25 lb. / 11.4 kg



**KAV-280p**

**Remote Control Preamplifier**

Krell Current Mode topology, balanced inputs and outputs, surface mount technology, custom machined volume knob, Theater Throughput, remote control, 12 VDC trigger.

17.3 x 3.5 x 17.3 in. / 44.0 x 8.9 x 41.4 cm

16.0 lb. / 7.3 kg

SHOWCASE



**The Krell Showcase HEAT System**

featured above include the Showcase DVD (top), the Showcase Processor (middle), and the Showcase Amplifier, the perfect combination for impeccable home theater performance.



**KAV-400xi**

**Integrated Amplifier**

200 W, 400 W (8, 4 Ohms) Theater Throughput, remote control, balanced inputs, custom-machined volume knob, 12V trigger.

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 Ohms), 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

UNIVERSAL REMOTE



**Universal Krell Touch Screen Remote**

Universal learning remote control is pre-programmed for Krell products. Custom macros and user-defined pages are supported. Light-sensitive, backlit display. Rechargeable batteries and charger included. 2 x 8.7 x 1 in.

5.1 x 22 x 2.5 cm, .5 lb. / .22 kg

# LAT SERIES

## 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 magnesium cone driver with a copper phase plug reduces resonance and reflections in the midrange drivers while increasing output capability. Custom-designed aluminum woofers are made exclusively for Krell and are optimized for the LAT enclosure.

### LAT-1000 Loudspeaker

A three-way floor standing loudspeaker with three, 8" custom made aluminum cone woofers, two 5.25" magnesium cone midrange drivers, and a 1" neodymium tweeter for lower distortion playback. 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. The massive, tuned bass port, 30" long, with a volume greater than 300 cubic



LAT-1000 Loudspeaker

inches lowers the bass frequency response by 1/3 octave. Articulating spikes allow precise leveling for the most accurate imaging.

Sensitivity: 89dB (2.83V @ 1m)

3 Ohms nominal impedance

Frequency response:

28 Hz-30 kHz +/- 3dB

14.7 x 54.6 x 14.7 in.

37.3 x 138.7 x 37.3 cm

250 lb. / 113.6 kg

### LAT-2000 Loudspeaker

A two-way loudspeaker with one 7" woofer and the same 1" neodymium tweeter as in the LAT-1000 in a dual port configuration. Individual high current crossover assemblies for the woofer and tweeter networks insure immunity from interference between driver elements. Optional metal stands are available and are acoustically and aesthetically matched to the LAT-2000.

Sensitivity: 88 dB, 4 Ohms nominal impedance

Frequency response: 45 Hz-30 kHz +/- 3dB

10.4 x 14.0 x 14.0 in. / 26.4 x 35.6 x 35.6 cm, 78 lb. / 35.5 kg

### LAT-C1000 Loudspeaker

A three-way center channel loudspeaker voiced to be a perfect match for the LAT-1000. The LAT-C1000 features the same drivers as the LAT-1000 in the following configuration: two 8" woofers, two 5.25" midranges, and one tweeter. Multi-position stand provides flexibility in placement.

Sensitivity: 87 dB, 3 Ohms nominal impedance

Frequency response: 50 Hz-30 kHz +/- 3 dB

40.9 x 16.0 x 17.0 in. / 104.0 x 40.6 x 43.2 cm, 200 lb. / 91 kg

*All LAT 1000 Series loudspeakers are available in silver, and a luxurious black finish.*

## 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-100 Hz +/- 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

*Available in a luxurious black finish.*

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

# RESOLUTION SERIES



## Resolution 1 Loudspeaker

A four-way floor standing loudspeaker with two 10" aluminum cone woofers, one 8" mid-woofer with magnesium cone, one 4" midrange with polypropylene cone, and one 1" dual-concentric ring tweeter with integral waveguide. A sub-enclosure houses the mid- and high frequency drive elements. Krell high-current crossover featuring 1/8" glass epoxy circuit boards used throughout. Sensitivity: 90 dB SPL (2.83 V @ 1m), 4 Ohm nominal impedance  
Frequency response: 25 Hz-22 kHz +/- 3 dB  
13.2 x 58.0 x 19.7 in.  
33.5 x 147.3 x 50.0 cm, 195 lb. / 88.2 kg

## Resolution 2 Loudspeaker

A three-way floor standing loudspeaker with two 8" woofers, one 6.5" midrange driver, and one 1" dual-concentric ring tweeter with integral waveguide. A sub-enclosure houses the mid- and high frequency drive elements. Krell high-current crossover featuring 1/8" glass epoxy circuit boards used throughout.  
Sensitivity: 89 dB SPL (2.83 V @ 1m), 4 Ohm nominal impedance. Frequency response: 28 Hz-22 kHz +/- 3dB  
11.6 x 48.0 x 19.7 in.  
29.5 x 121.9 x 50.0 cm, 140 lb. / 63.3 kg

*Spikes are included with Resolution 1 and Resolution 2 loudspeakers.*

**The Krell Resolution Series Loudspeakers** apply the same technology and design principles that are the foundation of the LAT Series. The combination of state-of-the-art



## Resolution 3 Loudspeaker

A two-way bookshelf loudspeaker with one 8" mid-bass driver with a magnesium cone, and one 1" dual-concentric ring tweeter with integral waveguide. Krell high-current crossover featuring 1/8" glass epoxy circuit boards used throughout. Sensitivity: 88 dB SPL (2.83 V @ 1m), 4 Ohm nominal impedance. Frequency response: 45 Hz-22 kHz +/- 3 dB, 11.3 x 16.0 x 16.7 in.  
28.7 x 40.6 x 42.4 cm, 45 lb. / 20.4 kg

## Resolution C Loudspeaker

A three-way center channel loudspeaker with two 8" woofers, one 4" midrange, and one 1" dual-concentric ring tweeter with integral waveguide. A sub-enclosure houses the mid- and high frequency drive elements. Krell high-current crossover featuring 1/8" glass epoxy circuit boards used throughout.



components, extremely efficient, well designed crossover networks, and beautifully crafted cabinets create a unique loudspeaker series, unlike any before.



## Resolution C Loudspeaker, continued

Sensitivity: 89 dB SPL (2.83 V @ 1m), 4 Ohm nominal impedance  
Frequency response: 48 Hz-22 kHz +/- 3dB  
32.0 x 12.3 x 16.7 in.  
81.3 x 31.2 x 42.4 cm, 90 lb. / 40.7 kg



## Resolution 4 Loudspeaker

A two-way on-wall loudspeaker with one 6.5" mid-woofer with magnesium cone, and one 1" dual concentric ring tweeter with integral waveguide. Krell high-current crossover featuring 1/8" glass epoxy circuit boards used throughout. Mounting hardware is included. An Omni Mount 30 adaptor is available. Sensitivity: 4 Ohms nominal impedance  
Frequency response: 55 Hz-22 kHz +/- 3dB,  
9.65 x 16.93 x 5.00 in., 24.4 x 42.3 x 12.7 cm  
21 lb. / 9.5 kg



## Resolution Subwoofer

A powered subwoofer with one 15" polypropylene cone bass driver in a sealed enclosure. A purpose-built 800 W Krell Amplifier provides a peak output of 117 dB @ 1m. Frequency response: 25 Hz-200 Hz +/- 3 dB, 20.5 x 22.5 x 23.8 in  
52.0 x 57.0 x 60.5 cm, 110 lb. / 49.8 kg

*All Resolution Series loudspeakers are available in an elegant cherry finish.*

# Evolution SERIES



Expressed through a combination of breakthrough technologies and inspired vision, the Evolution power amplifier and preamplifier culminate more than 25 years of industry leading audio design. The Krell badge is synonymous with music reproduction that fills a room with intoxicating detail and startling dynamics. Like live music, this effortless power and instant response elicit a visceral response that engages all the senses. Yielding phenomenal power in the most refined manner imaginable, the Evolution system is a synthesis of almost impossible contradictions; a unique blend of beauty, grace, and power.

## Evolution One Amplifier

The Evolution One amplifier is the result of Dan D'Agostino's unrelenting pursuit of the most realistic musical reproduction possible in one's home. Immensely powerful, the Evolution One is a monaural design that features a separate power supply for each channel. Stunning aesthetics hint at the advanced amplifier circuitry housed within its walls. The 450 watt Class A circuitry features the latest advancements in Krell amplifier design including the proprietary Krell Current Mode topology and the latest versions of the Krell Sustained Plateau Bias and CAST circuitries.

450 W, 900 W, 1800 W (8, 4, 2 Ohms),  
15.75 x 13.0 x 20.0 in. / 40.0 x x 33.0 x 50.8 cm  
160 lb. / 72.7 kg

## Evolution Two Preamplifier

The Evolution Two preamplifier is the ultimate expression of Krell preamplifier technology. A monaural preamplifier with a separate power supply, the Evolution Two is capable of rendering a near lifelike soundstage with stunning detail and presence. The balanced, zero feedback, Krell Current Mode and CAST circuitries results in a two megahertz open loop bandwidth that guarantees near perfection in the critical listening spectrum.

17.25 x 8.0 x 17.25 in. / 43.8 x 20.3 x 43.8 cm  
56 lb. / 35.5 kg

*All Evolution Series components are available in diamond-cut silver, and a luxurious black finish.*

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

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

First developed for use between Krell amplifiers and LAT loudspeakers, KSC cable 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.

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