



KAV-500i

*Integrated
Amplifier
with
Theater
Throughput™*



Powerfully Krell®.

Highlights

- Power output of 250 Watts per channel into 8 Ohms and 500 Watts per channel into 4 Ohms assures tremendous dynamic headroom for uncompressed reproduction regardless of source or loudspeaker.
- Proprietary Krell® output and driver transistors supported by a 2 kVA toroidal power transformer assure output current capability far exceeding most separate preamp/power amplifier combinations.
- Discrete differential Krell Current Mode™ preamplifier circuitry and balanced power amplifier topology assures wide bandwidth and low noise for audiophile-grade sound reproduction.
- True differential volume control features four separate optically-encoded signal paths for superb isolation, minimal distortion, and precise imaging.
- Theater Throughput™ mode provides convenient home theater system operation with a surround sound processor while maintaining signal integrity necessary for demanding cinema reproduction.
- Handheld remote controller allows easy operation of KAV-500i as well as other KAV-Series components.
- Rear panel connections for 12 volt trigger input and output signals and RC-5 remote control command codes insure seamless integration with the most sophisticated home entertainment systems.

*Substantial
power and
precise control
for the most
demanding
listeners.*

Krell® Sound Quality

Those who know Krell® know that Krell® builds unique products. The Krell® logo on an audio component is one of the surest signs of uncompromising design, innovative engineering, and meticulous craftsmanship. From the Krell® perspective, a properly designed integrated amplifier can be a rewarding and sensible system cornerstone, as sonically satisfying to demanding listeners as separate components. The integrated amplifier's comparatively simple signal path and reduced need for interconnect cables presents interesting theoretical advantages left unfulfilled by conventional designs. In addition, the properly designed integrated amplifier can simultaneously satisfy the space-conscious audiophile with the unique combination of convenience, size, and performance. The KAV-500i is a remote-controllable integrated amplifier built to enhance musical appreciation — built in the Krell® tradition of engineering excellence.

A POWERFUL FOUNDATION

Most integrated amplifiers falter when asked to drive inefficient or low impedance speakers to realistic levels. The KAV-500i does not falter. Its power capability—250 Watts per channel into 8 Ohms, 500 Watts into 4 Ohms, long-term stability into 2 Ohms—is astonishing. The KAV-500i is in the company of those very few components able to produce clearly delineated sound from even the most challenging loudspeakers.

The power supply is based on a 2 kVA toroidal transformer backed by capacitor banks with more than 27,000 µf of energy storage potential. This is considered excessive by conventional standards. The supply's capability actually exceeds the demands of the active audio circuitry to form a powerful base for extraordinary performance.

The preamplifier section benefits from similar rigorous approach to design. Krell Current Mode™, a fully differential Class A circuit topology, is used to provide total signal integrity to preserve nuances often obscured by less proficient designs. Differential design advantages extend to the initial stages of the power amplifier section using a volume control with four separate optically-encoded signal paths. The result is precise control, advanced stereo imaging, superb isolation, and minimal distortion.

The KAV-500i two channel amplifier circuitry is fully complementary and has wide-bandwidth, a key element in Krell® design. The two channels are built on subassemblies that are identical electrically and mechanically. This design assures sonic excellence; there are no sonic differences between channels. Class A input and driver circuitry delivers high-current drive to the output stage resulting in extreme

linearity and low distortion to the loudspeaker load. The KAV-500i output and driver stages employ the same proprietary transistors that are used in every Krell® amplifier. These transistors are built exclusively for Krell® by Motorola and give the KAV-500i unprecedented levels of speed, power, and musical accuracy.

CONVENIENCE, FLEXIBILITY, AND SYSTEM INTEGRATION

Sonic excellence is not the only criteria that sets the KAV-500i apart from other integrated amplifiers and many amplifier/preamplifier combinations. Consider the convenience that the KAV-500i provides. It features a full complement of inputs and outputs that assure easy interface with a wide variety of system components and configurations. The inputs accommodate professional-grade balanced and conventional single-ended sources. The rear-panel preamplifier outputs facilitate the installation of multi-amp systems capable of delivering tremendous sound in several rooms simultaneously or are able to drive a subwoofer system. The loudspeaker connections have gold-plated binding posts and accept a variety of speaker cable terminations. The KAV-500i allows remote on/off system operation via its rear-panel 12V trigger input and output jacks that exchange control signals with other KAV-Series components. This allows the KAV-500i to integrate seamlessly into remotely operated whole-house systems.

THEATER THROUGHPUT™

The unique Krell® feature called Theater Throughput™ makes the KAV-500i a superlative choice for integrating music and home theater systems. This mode greatly simplifies connections and allows the use of a separate surround sound processor while enjoying home theater and instantly returns system control to the KAV-500i whenever two-channel music is the preferred medium.

THE KRELL® TRADITION

Meticulous craftsmanship, distinctive styling, and intelligent features are just some of the qualities that set the KAV-500i apart from other amplifiers. Krell® sound quality, unique flexibility, and overall outstanding performance make the KAV-500i the logical choice not only for the audiophile, but for anyone who desires the advantages of substantial power and precise control from an integrated amplifier; advantages that only the KAV-500i can provide. Now, music lovers can experience the authentic sound of music or enhance their next home theater experience with one component, a component built in the Krell® tradition of engineering excellence, innovation, and impeccable quality.

KAV-500i

Integrated

Amplifier

Specifications

FREQUENCY RESPONSE
20 Hz - 20 kHz, +0.0/-0.2 dB

SIGNAL TO NOISE RATIO
-102 dB, "A" weighted

DISTORTION
1 kHz <0.06% THD

GAIN
34.6 dB

INPUT IMPEDANCE
57 kOhms

OUTPUT POWER each channel driven
8 Ohms 250 W
4 Ohms 500 W

POWER CONSUMPTION
Idle 230 W
Max. 1900 W

INPUTS
1 pair balanced via XLR connectors
3 pair single-ended via RCA connectors
1 pair single-ended tape monitor via RCA connectors

OUTPUTS
1 pair single-ended preamplifier output via RCA connectors
1 pair single-ended tape output via RCA connectors
1 pair speaker outputs via 5-way binding posts

REMOTE CONTROL
1 handheld wireless infrared
1 12 VDC trigger input/output via 3.5 mm mini connectors
1 RC-5 input via a DC power connector

DIMENSIONS
19w x 6.3h x 15.3d in.
48.3w x 16h x 38.9d cm

WEIGHT
Shipping 57 lbs., 25.9 kg
Unit Only 49 lbs., 22.3 kg

All operational features, functions, specifications, and policies are subject to change without notification.

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