

KAV-500
FIVE CHANNEL
AUDIO VIDEO
AMPLIFIER



Krell Audio Video

TODAY'S

MOVIE SOUND TRACKS ARE MUCH MORE DEMANDING OF AMPLIFIERS AND SPEAKERS THAN CONVENTIONALLY RECORDED MUSIC. RUMBLING FREIGHT TRAINS, ROARING CARTOON LIONS, THROBBING ALIEN MOTHER SHIPS AND STOMPING DINOSAURS - SONIC EFFECTS INCONCEIVABLE JUST A FEW YEARS AGO - ARE NOW STANDARD FARE. PROJECTING THESE SOUNDS CALLS FOR AN AMPLIFIER OF EXCEPTIONAL POWER DELIVERY, ONE CAPABLE OF REPRODUCING COMPLEX SOUNDS WITH LONG DURATIONS, HIGH DYNAMICS AND EXTENSIVE LOW FREQUENCY CONTENT. IN FACT, HOME THEATER SOUND REQUIRES EXACTLY THE TYPE OF AMPLIFIER KRELL HAS BEEN OFFERING TO THE AUDIO COMMUNITY FOR YEARS: AMPLIFIERS THAT CAN REPRODUCE ANY MUSICAL OR THEATRICAL EVENT WITH ACCURACY AND AUTHORITY.



The KAV-500 is a modular audio/video amplifier that will respond effortlessly to any sound-track Hollywood has to offer. It

channel is rated at 100 watts, with adjacent channels bridgeable to 400 watts. The KAV-500 delivers the high-impact bass, detailed midrange texture and air-crackling realism people have come to expect from the best home theater systems, yet so rarely experience.

Two, Three, Four or Five Channels

Building a home theater system is an endeavor that requires careful planning and installation. Some choose to enhance an existing stereo system by adding a center channel, surround speakers and a

KAV-500 FIVE CHANNEL AUDIO VIDEO AMPLIFIER

delivers Krell's traditional high levels of quality and performance, plus the multichannel flexibility needed to support a wide range of power and system configurations. With its unique chassis design, the KAV-500 can be configured with two, three, four or five channels. Each identical

subwoofer. Others assemble a complete home theater using all new components.

The Krell KAV-500's variable format meets the needs of both approaches. In its fully loaded five channel configuration, the KAV-500 has ample power and control to drive most home theater systems.

However, its modular construction allows you to optimize the KAV-500 for your



The KAV-500 is the First of a New Generation of Home Audio Video Products

requirements. For example, it can be purchased with three 100 watt channels for the center and surround speakers, or with four channels to supply 100 watts to the surrounds and 400 watts for the center channel, which uses 55% to 65% of the total power in home theater reproduction. Additionally, multiple units can be used to increase the power to all surround and sub-woofer channels to further increase performance. For a traditional stereo system, you can purchase the KAV-500 with two or four channels, for either 100 or 400 watts of power per channel respectively.

Flexible Power

The main chassis of the Krell KAV-500 is a remarkable blend of form and function. Five amplifier bays occupy roughly half the chassis, while the other half con-

tains a 1,000 watt power supply. This power supply uses a massive 1,000 VA toroidal power transformer and 104,000 uF of capacitance to insure that each channel receives all the voltage and current it needs, regardless of input signal or speaker load.

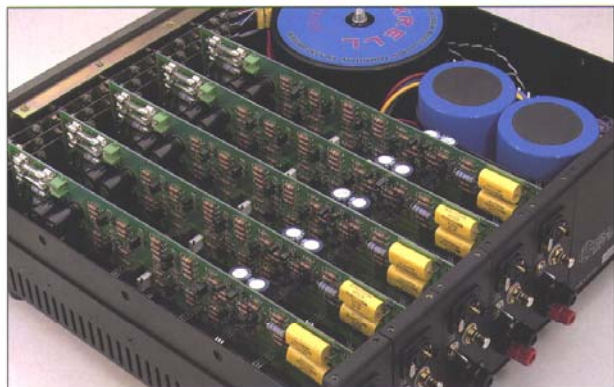
In actual home theater situations, the power requirements of each channel change constantly with the program material. Typically, the center channel runs at high levels, the left and right speakers vary significantly, while the surround speakers are less demanding. As a result, current demands shift rapidly and dramatically between channels. By using a single, massive power supply rather than smaller, individual power supplies for each channel, the KAV-500 is able to more effectively meet the varying demands on each

channel. If an amplifier used five 200-watt supplies instead of a single, 1,000-watt supply, each channel would be limited to a 20% share of the total system current. With the KAV-500's single supply, each channel can draw as much of the total current as it needs.

Sonic Considerations

As in all Krell products, great care has been taken to protect the purity of the signal. Noise-canceling balanced inputs as used in professional audio components are available in addition to conventional single-ended RCA inputs. A 0dB/+6dB gain switch is provided to match levels if the two input types are mixed. Fully complementary circuits provide a remarkable level of stability, low distortion and sonic purity. Each amplifier mod-





An internal view reveals the KAV-500's efficient construction. Individual channels can be easily installed or removed. Any two adjacent channels can be bridged to create one 400 watt channel.

ule has eight custom, 15 amp/250 watt metal-cased Motorola bi-polar output transistors, a proprietary Krell part. These extraordinary devices maintain the superb circuit linearity of the input stages, and contribute to the effortless power delivery and speaker control that are characteristic of all Krell amplifiers.

Ease of Use

The KAV-500 was designed to make installation and future changes easy to accomplish. You can increase the capability of a two, three, or four channel KAV-500 with additional channels and/or bridging channels together. Once inserted into the chassis, the completely self-contained channel is instantly integrated and fully operational. Adding a channel is simply a matter of sliding the new channel in from the rear of the unit. Bridging adjacent channels involves removing the top cover and installing a short jumper wire.

Krell Quality

The KAV-500 is consistent with Krell's uncompromising approach to innovative product design, circuit topology and sonic quality. It shares a proud heritage with landmark products such as the Audio Standard and S-Series amplifiers. Just as important, the KAV-500 was designed by the same engineers, built with the identical parts, in the same factory and by the same production staff as all other Krell products. The result is an amplifier that can resolve the fine detail of classical and contemporary music and harness the raw power of high-quality motion picture soundtracks with equal ease.

Elevate your home theater experience from the adequate to the awesome. The KAV-500—Krell for your home theater.



KRELL

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Specifications

Power/channel

5 channels @ 8 ohms: 100 watts
4 ohms: 200 watts

4 channels @ 8 ohms: 120 watts
4 ohms: 240 watts

3 channels @ 8 ohms: 120 watts
4 ohms: 240 watts

2 channels @ 8 ohms: 120 watts
4 ohms: 240 watts

Continuous, all channels driven

Signal to noise

-121dB, "A" wgt.

Distortion

<.03% THD

Gain

*23dB single-ended, 29dB balanced
Gain switch set to 0*

Input impedance

100k ohms, both inputs

Transformer

1,000 VA

Dimensions

6.25"H, 19"W, 17"D

Weight, 5 channel version

*Unit only 47 lbs.
Packed 58 lbs.*

The KAV-500 is compatible with all current and planned home theater formats.

Specifications subject to change without notice.



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