



**KRELL**  
THE LEADER IN AUDIO ENGINEERING

# DVD

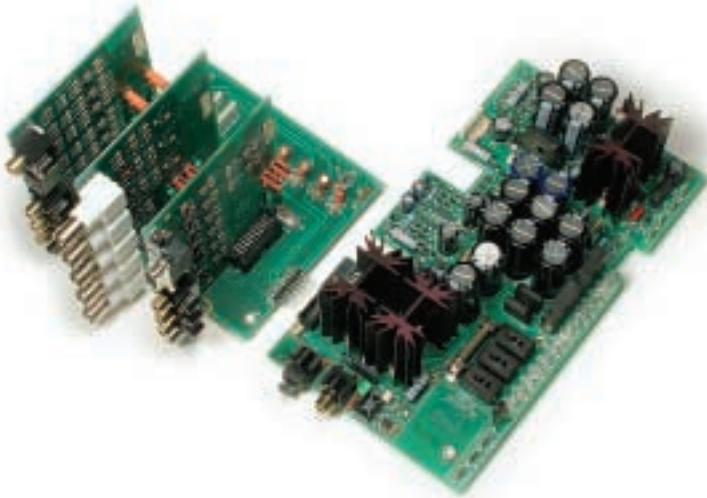
## DVD Standard DVD Player

Great home theater starts with a great source component. And in a marketplace inundated by unremarkable DVD players, the Krell DVD Standard has emerged as an industry reference—a true high-end home theater source component.



An advanced transport ensures compatibility with a wide range of media, including single- and dual-layer DVD, video CD, and audio CD/CD-R.

24-bit/192kHz ultra-high-resolution digital-to-analog converters (DACs) assure superb audio performance. The converters feature a differential current output configuration to provide an ideal interface with the renowned Krell Current Mode™ discrete Class A, direct-coupled, fully complementary analog output circuitry.



The Krell DVD Standard is uncompromisingly engineered to deliver the highest-quality video and audio source signal possible... for today's high-end home theater systems and those of the future. The player's firmware can be simply upgraded via the disc drive, making the DVD Standard immune to obsolescence.



The DVD Standard is the world's first standalone DVD player to incorporate Faroudja Laboratories' newest high-performance digital video chipset. Faroudja's patented digital signal processing technology delivers unprecedented image detail and sharpness. The DVD Standard also implements Faroudja's award-winning deinterlacing and line-doubling algorithms to provide the highest-quality progressive-scan video output.



Video output is optimized for the latest solid-state video display technologies, including plasma, LCD, DLP, and DILA. The progressive-scan output employs triple 10-bit DACs and provides both RGB and component interfaces.

Both Toslink and coaxial digital audio outputs are provided. A component output, featuring 2X oversampling and a 10-bit DAC, is provided for interlaced-scan video output, as are standard composite and S-video outputs.



The crucial final stage that delivers the video signal to the display device comprises professional-grade circuitry. It is classic Krell output stage technology applied to the video domain—robust, uncompromised circuitry delivering the most vivid and detailed picture available from the DVD platform.

# HTS 7.1

## Home Theater Standard 7.1 Surround Preamp/Processor



The Home Theater Standard 7.1 is THX Ultra certified and is fully compatible with the latest surround processing modes, including THX Surround EX, Dolby Digital EX, DTS ES 6.1, DTS NEO:6, and Dolby Pro Logic II. Additionally, Krell Music Surround modes provide enhanced reproduction of conventional stereo music sources.

The digital surround engine features state-of-the-art signal processors, operating at high speed and upsampled 24-bit precision, augmented by 8MB of added memory. The resulting boost in processing efficiency improves bit stream recognition and channel steering. Digital crossover circuitry, offering a wide range of crossover frequencies, operates in 48-bit double-precision mode for unparalleled ability to optimize speaker/subwoofer system performance. Finally, all channels are processed by 24-bit/192 kHz DACs, yielding the most accurate analog signal possible.

With its powerful configuration versatility and unparalleled system interface and flexibility, the HTS 7.1 is easy to use. Built-in step-by-step guides simplify optimal setup.

Broadcast-quality all-discrete video circuitry, providing bandwidth greater than 80MHz, delivers the most vivid color and detailed picture with all input signals—including composite, S-video, interlaced component, and progressive and wideband High Definition.



The Krell Home Theater Standard 7.1 is a full system control center offering exceptional audio and video performance, flexibility, and ease of use. It is the centerpiece in Krell's HEAT™—High End Audio Theater—system concept, which applies the fundamental principles of Krell audio engineering to the creation of a fully integrated high-performance multichannel audio/video system. Krell HEAT makes it possible to enjoy movies at home with audio quality unmatched by even the finest commercial theater venues.

The analog circuitry—the most critical stage in a surround preamp/processor—features the advanced signal path developed for Krell's flagship stereo preamplifier, the Krell Current Tunnel. All eight channels employ fully balanced Krell Current Mode™ topology in a zero-feedback configuration, delivering a staggering 1MHz bandwidth. This circuitry assures the most transparent reproduction of today's most demanding movie soundtracks and high-resolution audio formats. In Preamp mode, the HTS 7.1 operates as a pure analog preamplifier, bypassing all digital circuitry to ensure the cleanest, most direct signal path.



HTS 7.1 rear panel shown.

Krell's unique software-based seven-channel digital room equalizer maximizes system performance in any room. For each of four memory settings, the user can program filter type (high-pass, low-pass, notch, peaking, and high/low shelf), frequency, shape, and level for all seven channels. This makes it possible to program, for example, independent settings for stereo music, multichannel music, movie surround, or even video game software. Krell's digital room equalizer can transform your family entertainment room into a breathtaking home theater...without hiring an architect.

Controls include bidirectional RS-232 communications, 12V triggers, and direct RC-5 input. The HTS 7.1 is also Crestron I<sup>2</sup>P certified for use with touchpanel-based systems. The operating system resides in FLASH memory, enabling software upgrades via the RS-232 port.



# TAS

## Theater Amplifier Standard Multichannel Amplifier



The Krell Theater Amplifier Standard comprises five identical channels in a single chassis, providing prodigious output capability to drive any home theater speaker array to lifelike levels... with unmatched Krell sonic excellence.



The Theater Amplifier Standard delivers 200 Watts per channel into 8 ohms (400 Watts per channel into 4 ohms). Adjacent channels can be bridged to deliver 800 Watts into 8 ohms. Featuring Krell Current Mode™ discrete Class A, direct-coupled, fully complementary gain stages, Krell's newest circuitry topology ensures unmatched transparency and accuracy. The driver/output stage employs 14 high-current transistors per channel. Backed by an enormous 4kVA toroidal-transformer power supply, this design delivers huge output current capability for unwavering performance even with challenging speaker loads and the most demanding music and movie program material.

Both balanced and single-ended inputs are provided. 12VDC trigger input/output ports enable remote power on/off operation. A Multi Amplifier Throughput™ (MAT) feature sends the signal to any or all channels from a single input connection for reduced wiring complexity in multi-amplified systems. A DB-25 input enables convenient single-cable connection of audio and control signals.



# KAV

**KAV-3250** Three-Channel Amplifier  
**KAV-2250** Two-Channel Amplifier



Two powerful additions to Krell's highly acclaimed KAV Series provide high-performance music and home theater system enthusiasts with even greater choice and system configuration flexibility. The KAV-3250 and KAV-2250 amplifiers feature the newest Krell design enhancements, providing an extraordinary degree of sonic refinement.



The KAV-3250 Three-Channel and KAV-2250 Two-Channel amplifiers share numerous Krell design and manufacturing technologies. Both amplifiers are powered by a massive 2kVA toroidal-transformer supply. Both deliver a substantial power output of 250 Watts per channel into 8 ohms (500 Watts per channel into 4 ohms). With either amplifier, adjacent channels can be bridged to deliver 1000 Watts into 8 ohms.



Both amplifiers include the Krell Multi Amp Throughput™ (MAT) feature, which feeds the signal from a single input—balanced or single-ended—to any or all channels. This simplifies wiring requirements in multi-amplified systems.



As with the Theater Amplifier Standard, the gain stages use Krell Current Mode™, discrete Class A, fully complementary circuitry. The driver/output stages employ 14 high-current transistors per channel for high output current capability. This design delivers the clean, powerful, detailed reproduction that is the hallmark of Krell amplifiers.

The Krell Theater Amplifier Standard, KAV-3250, and KAV-2250 can be used in combinations to deliver 5, 6, 7, or more channels of incomparable amplification as needed in sophisticated home theater and whole-house systems.

# KAV-280cd

Compact Disc Player



The Krell KAV-280cd establishes a new high standard of performance and value among high-end compact disc players. Incorporating an advanced disc transport mechanism (compatible with CD-R and CD-R/W media), premium digital circuitry, Class A analog circuitry, and sophisticated high-linearity power supply, the KAV-280cd delivers performance unequaled by many more expensive players. It is the ideal CD player for the serious music lover.



Two 24-bit ultra-high-resolution digital-to-analog converters per channel provide fully balanced operation with exceptional reproduction quality. The analog stage features Krell Current Mode™ discrete Class A, direct-coupled, fully complementary circuitry.



The KAV-280cd has both Toslink optical and coaxial digital outputs. 12VDC trigger input/output ports enable connections for remote power on/off. An RC-5 interface is provided for remote control system integration. A convenient slimline handheld remote control is included.

A perfect Krell music system: the KAV-280cd Compact Disc Player, KAV-300iL Integrated Amplifier, and LAT-2 Lossless Acoustic Transducer —a treat for the eyes and a feast for the ears.





# KAV-300iL

Integrated Amplifier

The Krell KAV-300iL Integrated Amplifier is power and control in essential form.

Delivering exceptionally musical sound reproduction and an operational elegance matched by few components at any price, the KAV-300iL is an ideal component for music enthusiasts seeking quality, performance, and convenience.



With power output of 200 Watts per channel into 8 ohms and 400 Watts per channel into 4 ohms, the KAV-300iL has tremendous power reserves and provides high dynamic headroom. Even the most demanding source material is thus reproduced with decided authority and transparency.

The preamplifier section features Krell's advanced Class A, direct-coupled circuitry for superbly detailed music reproduction. Preamp circuits are powered by a dedicated supply with discrete voltage regulators.



The power amplifier section incorporates proprietary Krell driver and output transistors. 12 devices per channel provide enormous output current capability—far beyond that of typical integrated amplifiers.

The gain stages use Krell Current Mode™ discrete Class A, direct-coupled, fully complementary circuitry, further ensuring a level of reproduction quality normally associated only with the most expensive separate components.

The power supply features a massive 800VA toroidal transformer. Extensive power supply filtering and decoupling between stages assure low noise and high stability.



Both balanced and single-ended inputs are provided, and Krell's Theater Throughput™ mode simplifies integration into home theater systems. A convenient full-function handheld remote control is supplied. The KAV-300iL thus complements superb sound quality with outstanding operational ease and functional versatility.

# Specifications

The KAV Series: Continuing a Tradition of Performance and Elegance

## DVD Standard

Compatible Formats:	DVD Video, CD Audio, CD-R, CD-RW, Video CD
Video Decoding:	Automatic NTSC or PAL decoding on all outputs; 16:9 and 4:3 displays supported
Firmware:	Upgradable via CD-ROM
Outputs:	
Analog Audio	1 pair balanced; 1 pair single-ended
Digital Audio	1 coaxial; 1 Toslink
Video Interlaced	1 component; 1 S-video; 1 composite
Video Progressive	1 component; 1 RGBHV; 1 VGA
Remote Control:	1 handheld unit; 1 12 VDC in/out (12 V trigger); 1 RC-5 input; 1 bidirectional RS-232
Dimensions (WxHxD):	17.25 x 5.65 x 16.75 in. 43.8 x 14.4 x 42.5 cm
Weight:	20 lb. • 9.1 kg

## Home Theater Standard 7.1

Signal-to-Noise Ratio:	94 dB "A" weighted
Total Harmonic Distortion:	-88 dB unweighted, 20-20,000 Hz
Inputs:	
Analog Audio	1 pair balanced; 7 pairs single-ended; one 7.1 multichannel input
Digital Audio	6 coaxial; 2 optical
Video	4 S-video; 4 composite; 2 component
Analog Tape	2 pair single-ended
Outputs:	
Analog Audio	8 balanced; 8 single-ended; 1 multichannel
Digital Audio	1 coaxial; 1 Toslink
Video	2 S-video; 2 composite; 1 component
Analog Tape	2 pair single-ended
Zone 2	1 pair single-ended
Remote Control:	1 handheld unit; 1 12 VDC in/4 12 VDC out (12 V trigger); 1 RC-5 input; 1 bidirectional RS-232
Decoding Modes:	Dolby Pro Logic II; Dolby Digital 5.1; DTS 5.1; DTS ES Discrete 6.1; DTS ES Matrix 6.1; THX Surround EX; DTS Neo:6; Dolby Digital Surround EX
Surround Enhancement:	9 Krell Music Surround modes
Dimensions (WxHxD):	17.25 x 5.65 x 16.25 in. 43.8 x 14.4 x 41.3 cm
Weight:	19.25 lb. • 8.75 kg

## KAV-280cd

Frequency Response:	20-20,000 Hz +0, -0.5 dB
Signal-to-Noise Ratio:	103 dB "A" weighted
Total Harmonic Distortion	-82 dB, 20-20,000 Hz
D/A Converters:	4 Burr-Brown PCM-1704 24-bit devices
Digital Audio Output:	1 coaxial
Remote Control:	1 handheld unit; 1 12 VDC in/out (12 V trigger); 1 RC-5 input
Dimensions (WxHxD):	17.25 x 3.45 x 16.25 in. 43.8 x 8.8 x 41.3 cm
Weight:	13.5 lb. • 6.1 kg

## Theater Amplifier Standard

Frequency Response:	20-20,000 Hz +0, -0.09 dB
Signal-to-Noise Ratio:	Better than 110 dB "A" weighted
Total Harmonic Distortion:	Less than 0.03% at 1 kHz Less than 0.20% at 20 kHz
Gain:	25.8 dB
Input Impedance:	100 kOhms
Input Sensitivity:	2.05 Vrms
Output Power:	
Each Channel Bridged	200 W at 8 ohms; 400 W at 4 ohms 800 W at 8 ohms
Inputs:	5 single-ended; 5 balanced; 5 via DB-25
Remote Control:	1 12 VDC in/out (12 V trigger)
Dimensions (WxHxD):	17.25 x 9.75 x 17.00 in. • 43.8 x 24.8 x 43.2 cm
Weight:	100 lb. • 45.5 kg

## KAV-3250/KAV-2250

Frequency Response:	20-20,000 Hz +0, -0.09 dB
Signal-to-Noise Ratio:	Better than 112 dB "A" weighted
Total Harmonic Distortion:	Less than 0.03% at 1 kHz Less than 0.20% at 20 kHz
Gain:	25.7 dB
Input Impedance:	100 kOhms
Input Sensitivity:	2.32 Vrms
Output Power:	
Each Channel Bridged	250 W at 8 ohms; 500 W at 4 ohms 1,000 W at 8 ohms
Inputs (KAV-3250/2250):	3/2 single-ended; 3/2 balanced
Remote Control:	1 12 VDC in/out (12 V trigger)
Dimensions (WxHxD):	17.25 x 5.65 x 17.00 in. • 43.8 x 14.4 x 43.2 cm
Weight (KAV-3250/2250):	68/64 lb. • 30.9/29.1 kg

## KAV-300iL

Frequency Response:	20-20,000 Hz +0, -0.07 dB
Signal-to-Noise Ratio:	99 dB "A" weighted
Total Harmonic Distortion:	Less than 0.04% at 1 kHz Less than 0.25% at 20 kHz
Gain:	35.8 dB
Input Impedance:	47 kohms
Input Sensitivity:	0.644 Vrms
Output Impedance:	0.17 ohms
Inputs:	1 pair balanced; 3 pair single-ended (all with Theater Throughput)
Outputs:	2 loudspeakers via std. 5-way binding posts 1 pair single-ended preamp
Tape Input and Output:	1 pair ea. single-ended
Output Power:	200 W x 2 at 8 ohms; 400 W x 2 at 4 ohms
Remote Control:	1 handheld unit; 1 12 VDC in/out (12 V trigger); 1 RC-5 input
Dimensions (WxHxD):	17.25 x 3.45 x 17.00 in. • 43.8 x 8.8 x 43.2 cm
Weight:	31.0 lb. • 14.1 kg

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

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