KRELL
THE LEADER IN AUDIO ENGINEERING

K-300i Integrated Stereo Amplifier

The K-300i incorporates a newly developed amplifier circuit design with Krell iBias™ technology that delivers 150 Watts/Channel into 8Ω and 300 Watts/Channel into 4Ω. iBias provides the sonic benefits of Class A operation without the excessive heat and power consumption of traditional Class A designs.

A 771VA transformer with 80,000µF of capacitance forms a potent power supply for excellent signal control and dynamics. Krell Current Mode topology is employed with fully differential circuitry that runs from the input stage through to the last output gain stage providing an extremely linear and extended frequency response curve with smooth, effortless highs and extremely dynamic bass energy.

Packed with many of Krell's most musical-sounding technologies, the elegant chassis is living-room-friendly. Yet it has enough power to achieve incredible, lifelike dynamics with any speaker.

The front-panel menu system provides configuration features such as input trim. Theater Throughput mode lets the K-300i serve as the core of a surround-sound system without sacrificing two-channel sound quality. Analog Inputs include three stereo RCA and two stereo balanced XLR. High-quality gold-plated speaker cable terminals provide a secure, electrically ideal connection.

The K-300i also offers features that make it perfect for custom installation, such as RS-232 and Ethernet ports for control and status feedback, 3.5mm jacks for IR input, and 12-volt trigger input and output. Additionally, the unit has an internal web server that is optimized for tablets and provides a remote graphical user interface for convenient and intuitive control accessed through its Ethernet connection.

With the digital option installed the K-300i becomes a world class DAC with the connectivity and features to support the latest digital music formats. An ESS Sabre Pro DAC configured for high current output performs the digital to analog signal conversion for uncompromised reproduction of digital music.

A network streaming audio renderer with dedicated mobile App plays AAC, ALAC, AIFF, FLAC, WAV, WMA, and DoP files up to 192kHz/24-bit from UPnP music servers or NAS devices. The digital option with the mconnect Control app (available in iOS and Android versions) also provides Spotify*, vTuner Internet radio, Tidal*, Deezer*, and QoBuz* streaming services, is Roon Ready* and decodes MQA.

HDMI 2.0 inputs and output supporting 4K UHD with HDR are available for TV viewing with audiophile grade sound quality. A single USB host port is available on the front panel to play music from USB flash memory sticks and a USB device port is positioned on the rear panel for streaming music directly from a computer. The digital option also includes a Bluetooth receiver featuring Qualcomm® aptX™ audio technology for the best sound quality when connected to aptX enabled Bluetooth devices.

*A subscription is required for these services. Updating the digital module software may also be necessary depending on the vintage of the unit
**Krell highly recommends that users of the mconnect Control app update to the latest version of the app (v2.4.1 or higher for Apple devices and v2.3.7 or higher for Android devices). This fixes a potential issue where getting a phone call while using the phone to play music to the Digital Vanguard or Vanguard DAC could result in a large increase in volume level.

Specifications

Analog Inputs	:	2 pr. balanced via XLR connectors
	:	3 pr. single-ended via RCA connectors
Digital Inputs	:	1 EIAJ Toslink Optical
	:	1 S/PDIF Coax
	:	2 HDMI (HDMI 2.0a, HDCP 2.2) + 1 HDMI Output
	:	1 USB-A (USB 2.0 host)
	:	1 USB-B (USB 2.0 audio device)
	:	1 Bluetooth with aptX
Outputs	:	1 pr. preamp outputs via RCA connectors
	:	1 pr. speaker outputs via gold-plated binding posts
Control Inputs	:	1 RS-232 input via 9-pin D-subminiature connector
	:	1 remote IR detector input via 3-conductor 3.5 mm connector
	:	1 12 VDC trigger input via 2-conductor 3.5 mm connector
Control Output	:	1 12 VDC trigger output (60 mA maximum current) via 2-conductor 3.5 mm connector
Input Impedance	:	Balanced: 16 kΩ
	:	Single-ended: 8 kΩ
Frequency Response	:	20 Hz to 20 kHz +0, -0.22 dB
	:	<10Hz to 100kHz +0, -0.57 dB
Signal-to-Noise Ratio	:	>104 dB, wideband, unweighted, at 2V RMS in balanced, referred to full power output
	:	>117 dB, "A"-weighted
Gain	:	25 dB, referenced to 2V RMS in balanced and full power output
Input Overload	:	10.4 V RMS Balanced
	:	6.8 V RMS Single-ended
Total Harmonic Distortion	:	<0.015%, 1 kHz, 150 W, 8 Ω load
	:	<0.08%, 20 kHz, 150 W, 8 Ω load
Output Power	:	150 W RMS per channel at 8 Ω
	:	300 W RMS per channel at 4 Ω
Output Voltage	:	98 V peak to peak
	:	34.6 V RMS
Slew Rate	:	46 V/µs
Output Impedance	:	<0.023 Ω, 20 Hz
	:	<0.035 Ω, 20 Hz to 20 kHz
Damping Factor	:	>347, 20 Hz, referred to 8 Ω
	:	>228, 20 Hz to 20 kHz, referred to 8 Ω
Power Consumption	:	Standby: 11 W
	:	Idle: 46 W
	:	Maximum: 900 W
Heat Output	:	Standby: 37 BTU/hr
	:	Idle: 156 BTU/hr
	:	Maximum: 3060 BTU/hr
Dimensions	:	17.25 in W x 4.12 in H x 18.00 in D
	:	438 mm W x 105 mm H x 457 mm D
Weight	:	Unit only: 52 lb [23.6 kg]
	:	As shipped: 60 lb [27.3 kg]
Digital Module Specs	:	Coaxial and HDMI inputs support PCM up to 24-bit/192kHz. Optical input up to 24-bit/96kHz
	:	HDMI inputs support DSD and 4K video content. HDMI output supports Audio Return
	:	Channel (ARC)
	:	USB and Network streaming support MP3, AAC, WMA, WAV(PCM), FLAC, ALAC up to 192kHz
	:	Bluetooth streaming supports A2DP, AVRCP, HFP, HSP