

Krell Vanguard Integrated Stereo Amplifier



The Vanguard incorporates a 200-watt-per channel amplifier and a Class A preamplifier, enclosed in a chassis that borrows its design and construction from the new Krell Foundation preamp/processor, Connect stream player, Illusion preamp and iBias amplifiers. An optional, field-installable digital module with USB, HDMI, coaxial, and optical inputs as well as Ethernet audio and apt-X Bluetooth streaming will also be available.

The Vanguard's amplifier incorporates a massive power supply with a 750 VA toroidal transformer and 80,000 microfarads of storage capacitance. The tremendous amount of energy on tap provides 200 watts per channel into 8 ohms and 400 watts into 4 ohms. Two quiet, thermostatically controlled fans permit the use of a surprisingly compact chassis.



The preamplifier section of the Vanguard borrows its balanced, fully discrete Class A circuit concepts from Krell's top-of-the-line Illusion preamplifiers. Krell's Current Mode technology is employed to assure unequalled signal bandwidth, easily enough to handle the latest high-resolution PCM and DSD audio sources without impacting high-frequency response and detail.

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 naming and input trim. Theater Throughput mode lets the Vanguard serve as the core of a surround-sound system without sacrificing two-channel sound quality. Analog Inputs include three stereo RCA and one stereo balanced XLR. High-quality WBT speaker cable terminals provide a secure, electrically ideal connection.

The Vanguard also offers features that make it perfect for custom installation, such as 3.5mm jacks for IR input and 12-volt trigger input and output, as well as optional rack-mount ears. Additionally, the unit can be controlled with home automation systems through its Ethernet connection.

A key option for the Vanguard is the digital module, which can be added at the factory or by a dealer. The digital module includes USB, HDMI inputs and output, coax and optical digital inputs; Ethernet music streaming controlled through dedicated iOS and Android apps; and apt-X Bluetooth wireless for convenient streaming from phones, tablets and computers.

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Vanguard Specifications

Inputs

- 1 pr. balanced via XLR connectors
- 3 pr. single-ended via RCA connectors

Outputs

- 1 pr. speaker outputs via WBT gold-plated binding posts

Control inputs

- 1 remote IR detector input via 3-conductor

Output voltage

- 113 V peak to peak
- 40 V RMS

Output current

- 16 A peak

Slew rate

- 50 V/ μ s



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3.5 mm connector

1 12 VDC trigger input via 2-conductor 3.5 mm connector

Control output

1 programmable 12 VDC trigger output (300 mA maximum current) via 2-conductor 3.5 mm connector

Input impedance

Balanced: 95 k Ω
Single-ended: 47.5 k Ω

Frequency response

20 Hz to 20 kHz +0, -0.01 dB
<2 Hz to 150 kHz +0, -3 dB

Signal-to-noise ratio

>90 dB, wideband, unweighted, at maximum gain, referred to full power output
>97 dB, "A"-weighted

Gain

48 dB

Input sensitivity

Single-ended or balanced: 160 mV RMS

Total harmonic distortion

<0.015% at 1 kHz, at 200 W, 8 Ω load
<0.13% at 20 kHz, at 200 W, 8 Ω load

Output power

200 W RMS per channel at 8 Ω
400 W RMS per channel at 4 Ω

Output impedance

<0.066 Ω at 20 Hz
<0.075 Ω , 20 Hz to 20 kHz

Damping factor

>121 at 20 Hz, referred to 8 Ω
>106, 20 Hz to 20 kHz, referred to 8 Ω

Power consumption

Standby: 12 W
Idle: 70 W
Maximum: 1300 W

Heat output

Standby: 41 BTU/hr
Idle: 239 BTU/hr
Maximum: 4436 BTU/hr

Dimensions

17.1 in W x 4.15 in H x 17.5 in D
434 mm W x 105 mm H x 445 mm D

Weight

Unit only: 39 lb [17.7 kg]
As shipped: 47 lb [21.3 kg]

Digital Module Specs

Coaxial and HDMI inputs support PCM up to 24-bit/192kHz. optical input up to 24-bit/96kHz

USB and Network streaming support MP3, AAC, WMA, WAV(PCM), FLAC, ALAC up to 192kHz

Bluetooth streaming supports A2DP, AVRCP, HFP, HSP