

Ovation High Fidelity Model 1721 240 Watt Power Amplifier

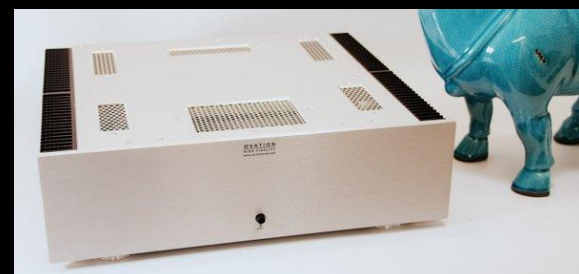
The very best audio systems demand the ultimate power amplifier: Ovation High Fidelity's Model 1721. Holographic imaging coupled to superior micro-dynamics and outstanding mid and high frequency sonic finesse are underpinned with massive, visceral power reserves that deliver fast, deep, extended bass performance. The result is an utterly fatigue free, natural sound no matter what the power output level or the type of music.

The Model 1721 employs the latest amplifier design insights and technology to dramatically reduce distortion and power supply artefacts without the use of large amounts of feedback. Like its smaller stablemate, the Model 1701, considerable engineering effort along with CAD/Simulation optimization of the circuit, PCB layout and mechanical design has resulted in what we think is an extraordinary high-end power amplifier.

"When an amplifier is this good everything seems to just work and it disappears from the conscious mind and allows you to immerse yourself in the music, which is what it should do." Alex Colburn, HiFiWigwam

". . . my overall impressions of the 1721 are that of neutrality, transparency, depth, control, power and effortless detail." Alex Colburn, HiFiWigwam

Ovation High Fidelity.
Audio Components
Engineered for Art™



Model 1721 High Performance Audio Power Amplifier

- 240 W RMS into 8 Ohms, 400 W RMS into 4 Ohms
- Fully Balanced Current Mode Topology (CMT) Design
- 0.0005% distortion 1 Watt into 8 Ω
- $\leq 0.003\%$ distortion 220 watts into 8 Ω
- >100 dB Signal to Noise Ratio 1 V into 8 Ω
- 250V/ μ s Slew Rate
- >60 A peak output current capability
- Switch Selectable Balanced or Single Ended Inputs
- 12 V Trigger Input Facility
- 1200 Watt Power Supply and Large Heatsinks for Cool Operation
- Comprehensive Microprocessor Based Protection and Monitoring
- All Aluminium/Stainless Steel Construction

The Model 1721 couples a wide bandwidth, ultra-low distortion, high power capability output stage to a 1200 Watt, high energy power supply. This approach ensures that the dynamic requirements of the loudspeakers never constrain the demands of the music, providing unmatched transparency and accuracy underpinned with huge reserves of ultra-clean power.

The amplifier can deliver short term loudspeaker currents in excess of 60A so that loudspeaker dynamic impedance dips – which can be as low as 1.8 Ohms – are easily dealt with. Careful attention to signal integrity requirements, amplifier and power supply design, and PCB layout have resulted in noise performance that approaches -110 dB reference full output power and ~ 100 dB ref 1 V out, while distortion at 220 W RMS out into 8 Ω 's remains below 30 parts per million (1 kHz).

The power supply is configured around a substantial custom built 1200 Watt transformer that includes a flux band and an inter-winding screen to ensure mains noise ingress into the amplifier stages is prevented. A large 88 000 micro-Farad capacitor bank provides huge instantaneous energy reserves that are always on tap when the music demands it.

Comprehensive microprocessor based protection features include output overcurrent, over-temperature, DC offset detection and in-rush current limiting on power-up. Speaker muting is accomplished using innovative 100 A MOSFET switches that, unlike conventional electro-mechanical relay loudspeaker switches, suffer no wear out mechanism and signal degradation over time, whatsoever. The Model 1721 can accept balanced or single ended inputs which are selected via a push-button switch located on the rear of the unit. A 12V (40mA max) trigger input enables the amplifier to be remotely powered up and down by a system controller or preamplifier equipped with a trigger facility.

Like all Ovation High Fidelity products, the Model 1721 is solidly engineered in a sturdy, all aluminium chassis, built to give years of trouble free service and comes with a 5-year warranty.

**Designed, Engineered and Hand Assembled in England. 5 Year Warranty
on Parts and Labour**

Model 1721 Stereo Power Amplifier

Specifications

Model 1721 Stereo Power Amplifier

General Description

240 Watt RMS, wide bandwidth, low distortion Current Mode Topology (CMT) power amplifier equipped with microprocessor based non-invasive over-current, over-temperature and DC Offset protection. Power up/Power down muting using solid state loudspeaker relay and in-rush current limiting during mains power-up. Balanced or single ended input selected via a push button on the amplifier's rear panel.

Inputs	1 pair single ended via RCA phono receptacles ($Z_{in} = 10k \Omega$) and 1 pair XLR balanced input ($Z_{in} = 10 k \Omega$); Input selection is via pushbutton located on amplifier rear panel
Input sensitivity	At rated output power: 1V for single ended inputs; 0.5V for balanced inputs
Output Power	240 W RMS into 8Ω 20 Hz to 20 kHz; 400 W RMS into 4Ω 20 Hz to 20 kHz; 700 W RMS into 2Ω single channel driven; Peak I ² R Power 1200 W single channel driven ($t \leq 50ms$)
Peak output current	> 60 Amps for $t \leq 20ms$
Signal to Noise	Better than 100 dB ref 1 V into 8Ω ; typically, typically 120 dB ref full output
Rise time	Large signal: ≤ 500 ns rise and fall time 10% to 90% into 8Ω ; small signal rise time ~ 100 ns 2 V peak into 8Ω
Slew Rate	250 V/ μs positive and negative
Frequency Response	20 Hz to 20 kHz +0 dB -0.1 dB 1 W into 8Ω 2 Hz to 250 kHz +0 dB -3dB into 1 W 8Ω Intrinsic response (front end low pass filter disabled) 2 Hz to 700 kHz -3dB 1W into 8Ω
Distortion	$\leq 0.003\%$ (30 parts per million) at all frequencies and power levels up to 220 W RMS output into 8Ω ; $\leq 0.0005\%$ 20 Hz to 20 kHz 1W into 8Ω
Damping Factor	approx. 800 at 1kHz into 8Ω
Trigger Input	+12 V via 3.5mm phono jack to rear panel; Max current consumption is 40mA
Operating voltages	110-130 VAC or 220 to 260 VAC; factory set at time of order
Max Power consumption	1200VA
Dimensions	450mm wide x 110mm high x 320mm deep
Weight	22 Kgs unit only, 27 Kgs including packaging
Operating Temperature	-10 °C to +45 °C non-condensing
Warranty	5 years – terms and conditions apply – see www.ovationhifidelity.com

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