

# Alpha One

## STREAMING INTEGRATED AMPLIFIER

Alpha One is the result of the experience gained during the development of our Reference line and represents a synthesis of B.audio's technological know-how. The goal was both simple and demanding: combine a cutting-edge DAC together with a high-end passively cooled dual-mono amplifier in a single enclosure. Our proprietary EX networking module is also included, offering acoustic correction and advanced streaming capabilities.



### State-of-the-art digital playback

The B.audio Alpha One benefits from B.audio's patented SJR « Source Jitter Removal » technology. By completely eliminating the jitter from any digital source, it allows the conversion circuits to work optimally, ensuring unprecedented digital-to-analog conversion quality, regardless of the digital input format.

The result is a realistic, rich and lively sound. Combined with the embedded EX network module, this is the key to an unparalleled streaming music experience.

### Extended bandwidth preamplification

The preamp stage of the Alpha One relies on a fully symmetrical construction, featuring a relay driven resistor network volume control for a perfect balance between the left and right channels.

No coupling capacitor is mounted in the Alpha One. Operating outside the signal path, multi-pole servo circuits are used to provide a constant continuous reference to the active elements of the circuit. The integrity of the audio signal is thus fully preserved, ensuring a high level of transparency together with an extreme bandwidth extension, refined highs and extremely deep bass.

### Dual-mono internal construction

The amplifier stage of the Alpha One is directly derived from our reference power amplifiers.

Its in-house refined topology was designed to drastically reduce dynamic distortion. Optimizing the use of local feedback at the most critical stages, it benefits from the advantages of a class AB output stage while maintaining a perfect linearity of operation. Its dual mono design features comfortable power ratings together with a high current reserve, allowing it to drive the most demanding loudspeakers with powerful bass handling.

# B.audio

[www.b-audio.com/listen](http://www.b-audio.com/listen)

# SPECIFICATIONS

## Alpha One

### GENERAL

Power supply	Factory set: 220–230V or 100–115V, 50–60Hz
Dimensions	450 x 395 x 102mm
Weight	15.5kg
Output power	200W under 4 ohm, 120W under 8 ohm
THD	< 0.001% (1–100W, 8ohm)
Bandwidth	> 200kHz



### DIGITAL SECTION

D/A Conversion type	Multibit sigma-delta
DAC Clock management	Patented SJR technology
Streaming protocols	UPnP, MPD, LMS, NAA, Roon, Airplay Gapless playback Access to streaming services (Qobuz, Tidal, Spotify, ...) via compatible iOS and Android applications
Integrated music server	UPnP compliant
Acoustic correction	64-bit DSP / 8x parametric filters with automatic gain adjustment
Inputs	1x SPDIF (PCM up to 24bits / 192kHz) 2x Toslink (PCM up to 24bits / 96kHz) 1x AES/EBU (PCM up to 24bits / 192kHz) 1x USB type B (PCM up to 384kHz / DXD / DoP / native DSD up to DSD 256) 1x RJ45 (PCM up to 384kHz / DXD / DoP / native DSD up to DSD 256) 1x USB DATA (to connect a storage media / SSD disk)

### PRE-AMPLIFICATION

Volume control	Analog, via switched resistor network, -80 to +0dB, 64 steps
Construction	100% balanced
Inputs	1x XLR (balanced) 2x RCA (unbalanced), one of which configurable as bypass (home theater use)
Input impedance	47 kOhm
Pre-out	1x XLR (balanced)
Output impedance	100 Ohm

### AMPLIFICATION

Construction	Dual-mono, class AB, passive cooling (fanless)
Output stage	2 pairs of high current bipolar transistors
Speaker connectors	Universal, compatible with forks, bare cables and banana plugs