





# The Zircon PowerAmplifier

Zircon is Canta Audio’s entry amplifier, the fruit of several years’ research and development. Most of that time was invested in fine-tuning, reliability checking and proper operation tests. We can therefore provide a 3-year guarantee for all parts.

For our power stage we preferred a solid state design, because of its canning ability to drive various kinds of stubborn, low impedance loads.

Zircon’s design approach is almost puristic, with no capacitors on a very short signal path. The philosophy behind Zircon is to have a adequate power along with excellent drive capability, high tempo awareness and an absolutely transparent character, a goal that can only be achieved by a TRUE dual monaural design.

## Technical Specifications:

Power Output:	2x 60W RMS@8Ω
Inputs:	1x line (RCA)
Power Inputs:	2x IEC sockets
Frequency Response:	0Hz - 50KHz
Input Impedance:	22KΩ
Dimensions:	420x134x328 (mm, WxHxD)
Weight:	20Kg

# TRUE Dual Moanaural Circuit Design

Zircon is a solid-state design. No tubes or any other active device is used as a driver for the output stage. Also, there are no capacitors in the signal path. Power cables are 99,9% pure solid-core copper, whilst the power switch features gold plated contacts. The design’s topology also features a smart dynamic protection system, with neither relays nor fuses, permanently shielding itself against spikes, short circuits, wrong connections and overheating. This makes Zircon one of the most reliable power amplifiers.

All this sums up as a fast, accurate, neutral and -at last- a maximally transparent amplifier who respects the signal fed through its inputs and acts as the proverbial wire with gain.




## Enclosure

Zircon chassis and cover are made of 2 mm thick folded steel, a material that not only ensures robustness but also completely isolates the circuit from any interference. The whole structure rests on sorbothane feet to deliver that final touch of “black” to each recording’s background, on which even the faintest detail is effortlessly discernible.

## Matching

Canta Audio Zircon Poweramp can pair with any preamplifier, even with passive ones. Its neutral and absolutely transparent nature will let your preamplifier’s unique character pass through. Expectedly, Zircon was the main amplifier that we used to fine-tune the Topaz line stage.

designed with passion.  
built with passion.  
enjoyed with passion.



# Components

Canta Audio makes exclusive use of specially selected, low tolerance, long-life military grade parts, such as Dale resistors. Power supply capacitors are from the top quality ranges by Vishay and Elna and ensure uncompromisable stability and ultra long hours. The PCB is a mirror design, military specified, made of 2,5 mm thick fiberglass and its copper tracks are all gold plated. Routing has been implemented, to achieve the shortest possible signal path.

Each Canta Audio device sustains a set of exhaustive quality control tests for several months before being certified for retail.



## Power Supply

Canta Audio Zircon is a -TRUE- dual monaural design, each channel sharing nothing but the same room with the other. This even includes separate power cables, IEC sockets and power switches, as well as power transformers, smoothing capacitors and of course output stages. A dedicated soft-start circuit is employed for each transformer and gold plated contact relays are used, to ensure lifetime longevity. Each of its two transformers is rated @ 400VA and custom-made for Zircon; its current provision capability is enormous, rendering low-impedance loads a non-issue. This topology stands for the ultimate channel separation achievable, which equals to a perfect soundstage, real 3D imaging and lifelike dynamics.

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