

180° sound stage with only 2 speakers!

Hardware

- 28/56bit DSP Engine
- 24-bit ADC/DAC conversion
- 96kHz sampling rate
- Nichicon Muse Audiophile caps
- Gold plated RCA connectors

Audio Processing Algorithms

- RACE Ambiphonics Algorithm
- Input/Output digital Gain
- 4 Parametric Equalizers (PEQ) per input channel

Control

- Software configurable
- Plug & Play USB driver
- WinXP/Vista/7 compatible
- Mac OS X Intel compatible

Power

- USB powered or USB DC supply

Ambiophonics Applications

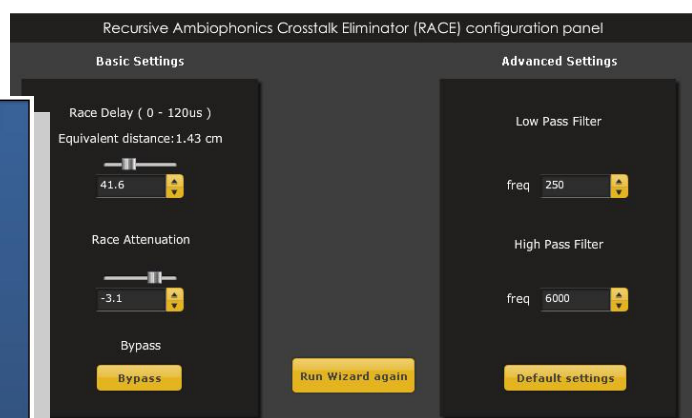
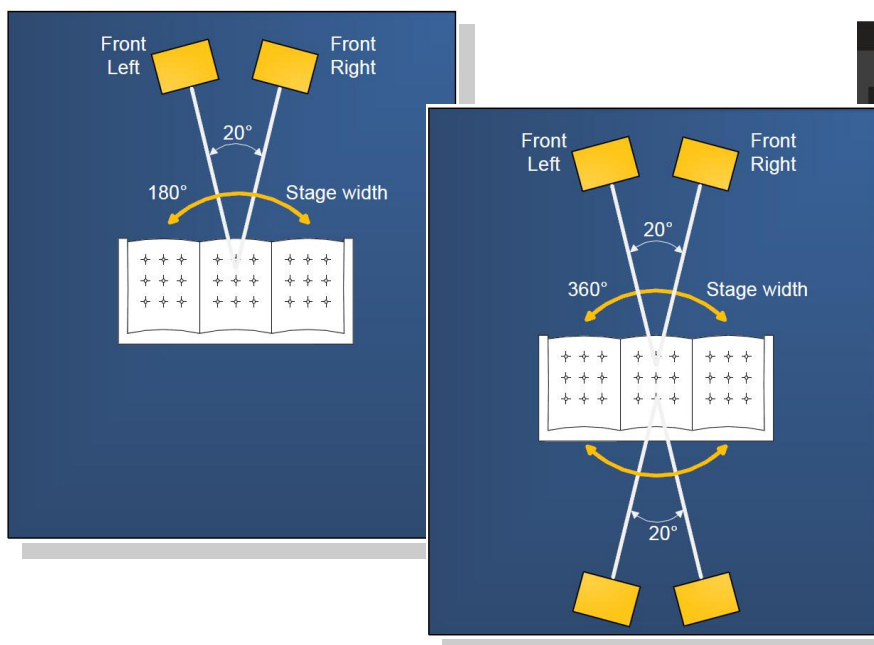
- Hifi Systems
- 3D movie experience
- Surround Sound
- Car Audio installations
- Immersive Audio Installations



At the heart of Ambiphonic theory is the elimination of the stereo speaker crosstalk, thus producing a front stage with unprecedented width, depth, and presence. By combining Digital Signal Processing (DSP) and using a more convenient speaker angle of about one third that of stereo, Ambio4YOU delivers an exciting binaural listening experience rather than the flat sonic illusion of stereo even from standard CD, LP or DVD 5.1 media. Ambiphonics with two or four speakers will change the way you listen to music, games or soundtracks.

miniAMBIO acts as the brain of Ambiphonics, processing audio on a dedicated DSP IC with high quality 24/96 algorithms. The end result is an accurate and distortion free listening field of 180 degrees (two speakers) to 360 degrees (four speakers). miniAMBIO 2.0, a single miniAMBIO processor is sufficient to provide up to a 180 degree field of listening; you get true binaural sound via loudspeakers instead of earphones. For those wishing to achieve the holy grail of 3D immersive surround sound audio, you can implement Panambiophonics with miniPANAMBIO 4.0 using two miniAmbio devices.

miniAMBIO Speaker configurations

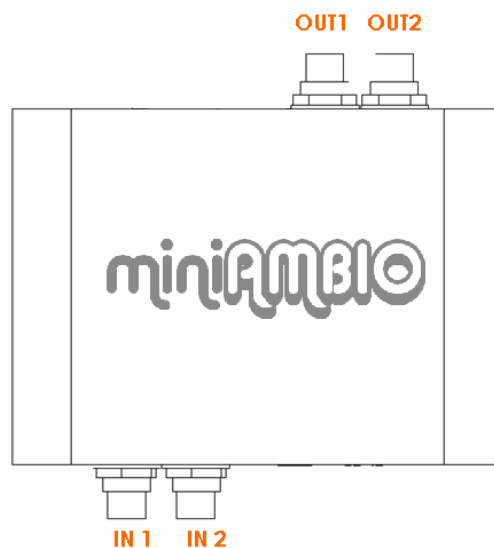
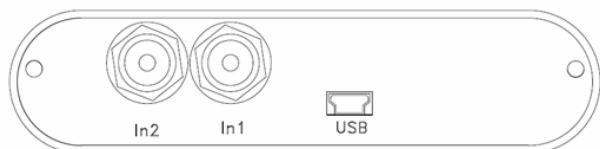


miniAMBIO Software Configuration

HARDWARE TECHNICAL SPECIFICATIONS

Item	Description
Digital Signal Processor Engine	28/56 bit Digital Signal Processor Engine / Double precision processing
Host Processor	48MHz microcontroller
Sample rate	96kHz
ADC/DAC Data resolution	24 bits
Analog Audio Input	Unbalanced input, RCA terminated
Maximum input level <1% THD	0.9Vrms or 2Vrms
Dynamic range ADC, un-weighted	>98dB
Impedance	6Kohms
Analog Audio Output	Unbalanced input, RCA terminated
Maximum level, unbalanced, <1% THD	0.9Vrms (2.5Vpp)
Dynamic range DAC, un-weighted	>98dB
Impedance	560ohms
Power supply	USB powered
Dimensions (H x W x D)	100 x 110 x 26

Mechanical Drawing



What's included in the Box?

- miniAMBIO 2.0
- 1 x Shielded USB cable
- 1 x RCA cable (1m long)
- Login instructions to download your miniAMBIO software

miniAMBIO OEM & ODM

Looking to implement Ambiophonics inside your Products?

Introducing to the Powered by Ambio4YOU program.

From system design all the way to implementation, our engineering team can help you develop breakthrough Ambiophonics products.

For more information on our OEM/ODM programs, contact the Ambio4you sales team at info@ambio4you.com