



A NEW VISION
OF THE HIGH-END LOUDSPEAKER



EDEN ACOUSTIQUE



A B O U T E D E N

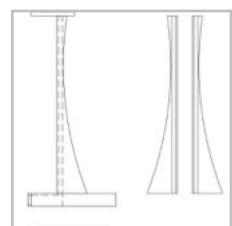
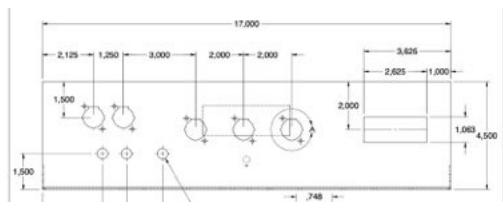
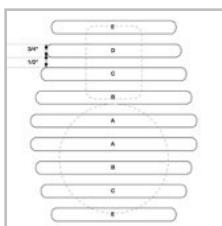
Eden Acoustique was founded in 2012 and is based in Montreal, Canada. We are committed to building loudspeakers that transcend the boundaries of traditional designs with new visions of the modern loudspeaker. Introducing a new breed of loudspeakers that are sonically invisible. The Open Air loudspeakers.

Our products use the latest technologies, revolutionary acoustic designs and beautiful craftsmanship. In many ways they are pretty innovative, yet they have one goal: leaving first stage to the artist or event, never obscuring the spirit of the music being played.

T E C H N O - B A B B L E (a r c h i t e c t u r e)

The high-end loudspeaker market has stayed quite static over the years, and boxes of all sizes and forms have become *a la mode*... Nevertheless, it is well known that a box behind a speaker just adds its own resonances, causing all sorts of problems. The dipole / open baffle loudspeaker is an improvement. With a radiation pattern in the form of an eight and the removal of the box, it greatly reduces the reflection of the sound on side walls and eliminates enclosure resonances. Unfortunately, dipoles and open baffle loudspeakers are often quite large...

At Eden Acoustics we were looking for the best of what a dipole loudspeaker could offer, but with a more modest size and possibly improved looks. After multiple tests and measurements, we were happy to discover that an open baffle loudspeaker *without* any baffle sounded even more "open". Using a separate bass module helped downsize the system even more. The TÔMEI is the only open baffle loudspeaker to play full range with such a modest size. It's equally at home in much smaller spaces. The TÔMEI is really the *renaissance* of the dipole!

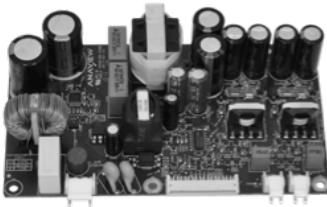




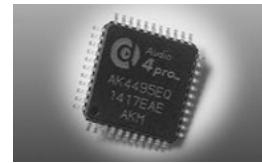
TECHNO-BABBLE (electronics)

Every TÔMEI active system comes with a multi-channel digital processor (DSP) driving five channels of D/A conversion and amplification. One channel of amplification is dedicated to each driver for a total of 600 watts. The amplifiers offer load independent

frequency response and frequency independent distortion behaviour. An exclusive *adaptive modulation servo* technology corrects non linearities in parallel with the class D stage itself, reducing distortion to a very low 0.05% at rated power. These new generation Class D amplifiers can now compete with the best class A, AB or valve challengers on the market. TÔMEI's DSP is a six inputs, eight outputs DAC platform. The digital signal processor comes with state-of-the-art components from Analog Devices, XMOS and AKM. Signals are processed by an audio-optimized 40-bit floating point DSP capable of up to 384 kHz performance.



On the input side, a complete set of digital and analog inputs are available on the ACU-01 control unit. These include USB Audio Class 2, S/PDIF and balanced / unbalanced analog inputs. Digital signals benefit from low phase jitter clocks that drive all the data converters while minimum phase anti-imaging filters are used by the DACs to avoid pre-echo effects. The AKM AK5397 A/D converter incorporates very high common mode rejection/low noise balanced inputs and all signals are processed by the audio-optimized 40-bit floating point DSP, capable of up to 384 kHz performance. The USB Audio Class 2 input supports the high sample rate and full bit depth offered by the DSP.



Few active loudspeakers systems can claim such a high-end electronics package. It would take some of the best audiophile standalone units to even come close to its capabilities.



TÔMEI AIR LOUDSPEAKERS

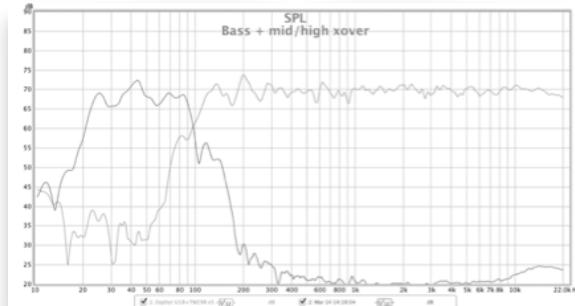
The TÔMEI Air is the perfect example of our Open Air Design architecture. They are full range loudspeakers and the perfect combination of outstanding sound quality and ground-breaking design. No more box, no more baffle... What is left is music so alive that for the first time you not only listen to a LIVE performance, you attend it!

"Those Canadian loudspeakers shine with an almost holographic playback, a 3D sound, completely detached from the speakers in the room."

Sempre Audio - Germany

STANDING IN FREE AIR

At the start, TÔMEI was an open baffle loudspeaker. The spatial projection abilities of these designs significantly exceed the spatial experience offered by traditional point loudspeakers. The OB also cancels side reflections, which further improves imaging. At Eden Acoustique, we carried on from there to finally remove everything except the drivers and so our Open Air Design was born.



If you measure such a system, you will find that from 400 to 2500 Hz, the midrange driver performs better in all aspects without a baffle with better power response, smoother frequency response and less distortion. Over 2500 Hz we are in tweeter territory and baffle or not makes no difference. Below 400 hz. this is another story and at bass levels, a baffle is beneficiary to get more efficiency and dig deeper. In the TÔMEI we solved this by building a stand-alone bass unit that sports a small baffle and sits low near the floor. To get omnidirectional bass, we use a crossover frequency below 100 Hz.



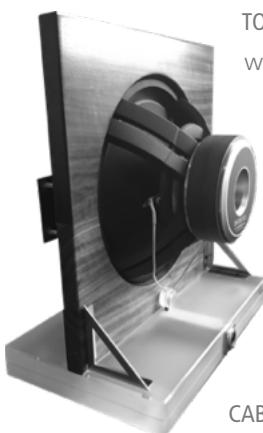
TÔMEI AIR LOUDSPEAKERS

"A revelation! Bass quality : 15 / 15"
Stereoplay Magazine - Germany

"This is cutting edge audio art"
Rick Becker - Enjoy the MUSIC

STYLISH DESIGN

Every TÔMEI loudspeaker system is finely crafted of solid wood and acrylic parts to damp any resonance.



TOWERS: Each tower makes use of 9 acrylic diffusion ribs and comes with a solid American walnut wood support. The base is a 2-inch thick sculpted block of acrylic with specially designed, damped aluminum spikes.

BASS MODULE: The separate bass module employs a 1-inch solid wood baffle with stainless steel braces. It also stands on damped aluminum spikes.

CONTROL UNIT: Our ACU-01 unit is built of stainless steel that does not fade over time paired to solid wood and an acrylic front panel.

CABLES: The TÔMEI system uses twist'n lock speakon connectors, which improve the connection and are much easier to use. The bi-wire speaker cables are included with the system and they come from a renowned loudspeaker cable company in Scotland.





TÔMEI AIR LOUDSPEAKERS

"In a word, the whole sonic portrait spreads itself in what seems layers upon layers of rich, dynamic, but mostly liquid-like smoothness. Song after song, it led me to believe that there did not exist any speaker in front of me!"

Dan Fagen - Audiophile

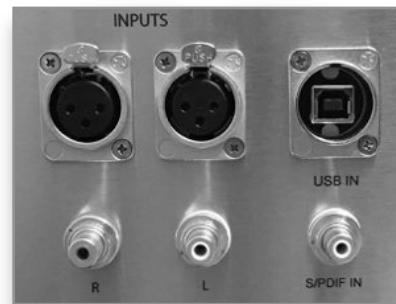
LIVE CONCERT OR CINEMA SHOW?

When hearing a TÔMEI loudspeaker system for the first time, maybe you will say, like this audiophile: "...*my ears adjusting to a sound that I must admit, I've never quite heard up until then...*".. or simply like our German distributor: "*The sound is overwhelming.*". Some call it holographic acoustics and indeed the TÔMEI often give that feeling of really being at the concert or in the studio with the artist.

With the ultra precise DSP system used, we could tailor all aspects of the sound, including phase and driver delays. But further than that we designed an Open Air loudspeaker. It all adds-up to give a new dimension to music.

TÔMEI are active loudspeakers. With them, no more preamplifier, no more amplifier, nor DAC. Just plug-in your computer to the USB connector of our ACU-01 control unit and run your preferred HD Audio software application. From now on, using your intelligent phone or tablet, you can control everything.

Looking for an exciting cinema night, use the analog or digital input of the ACU-01 and enjoy thunderous bass, incredible 3D rendering of sound effects, enter the film! Balanced and unbalanced analog inputs are available for all types of source materials.



For your convenience, a front panel display lets you adjust the volume level, select the input or even adjust the analog input sensitivity.

TÔMEI AIR LOUDSPEAKERS

REVIEWS



Hifi STARS

Wonderfully vivid, expansive sound... I lean back, forget the speakers, close my eyes... Pure musical bliss. Goosebumps? Yes, indeed!

I'm easily carried by the piano sound and I'm again impressed by the awesome full strength sound whose striking spatiality never ceases to amaze me!

These speakers are not only a feast for the eyes. They easily manage the full spectrum of all kinds of music and they can satisfy even the most demanding audiophile.

Dipoles and open baffle loudspeakers come in many shapes. On the other hand, Eden Acoustics omitted the baffle on its TÔMEI 2.1 system, allowing the drivers to play free.

Does that work? Absolutely!

Sensationally silky, neutral and open sound with ultra-precise, deep and musical bass.

Naturalness : 14 / 15
Bass quality : 15 / 15
Resolution : 14 / 15
Imaging : 14 / 15



TÖMEI Technical specifications:

Two TÖMEI towers + One Bass Module and one ACU-1 control unit. Supplied with all speakers cables using speakon™ connectors.

Frequency response: 27 - 25,000 Hz. -3 dB

Control Unit

- DSP: 40 bits / 384 kHz sampling rate on 8 output channels
- ADC: 40 bits / 384 kHz (balanced and unbalanced inputs)
- ADC sensitivity adjustment (+ 6db, + 12 dB)
- USB Audio Class 2: 40 bits / 384 KHz
- 3 new generation Class-D stereo amplifiers
- 1250 watts total

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