



Emo Labs

Emo Labs, Inc.

Sound technology with a clear difference

Company Overview

Emo Labs enables leading electronics manufacturers to deliver new products that offer a vastly improved listening experience for home entertainment, desktop and portable use. Emo Labs' patented *Edge Motion™* audio solutions literally "disappear" into the display enclosures of a wide variety of display-based consumer electronics products such as flat screen TVs, PC monitors and notebook computers. EMO™ brand speaker systems offer significant design benefits for today's shrinking CE products and will revolutionize the way that music and video content are enjoyed because they unify video content with high-quality audio that radiates directly off the display screen.

Our Business

Although most people love the shift from CRT displays to LCD panels, it has come at a cost – the audio quality in most products has declined dramatically. As manufacturers strive to deliver smaller, lighter and more streamlined display-based consumer electronics, providing high-quality audio has become a more significant challenge. Because speaker drivers typically need a large enclosure (or "box of air") to sound good, most recent attempts to integrate speakers with displays have resulted in compromised end products – either in terms of sound quality, package size, or both. Finally, an innovative new technology developed by Emo Labs makes it possible for manufacturers to enhance their products by delivering improved audio performance without compromising the physical design.

Edge Motion™ audio technology is the breakthrough that enables our speaker systems to deliver unparalleled audio performance in a "zero footprint" package. With the unique ability to create fully-transparent speakers that offer amazing sonic performance, Emo Labs is developing embedded audio solutions that enhance the value and performance of a wide range of display-based products.

The company is currently focused on developing solutions for TVs, monitors and notebook computers. Future applications could include: palmtop PCs, desktop videoconferencing, mobile phones, netbooks, game machines, Portable DVD players, GPS units, picture frame speakers, and a wide variety of other consumer, automotive and industrial applications. Each of these products will benefit from unparalleled acoustic performance, smaller package size and the magic of a *unified* audio and video experience.

Edge Motion™ Audio Technology

Over the past 85 years, the electronics industry has learned how to make *better sounding* speakers; but now, the focus has shifted to building *smaller* speaker systems. Unfortunately, the combination of these attributes is not generally available in a single, affordable package. Today's new breed of electronics products demands natural, full-range sound that is directed at the listener and fits into a streamlined display enclosure. This is where Emo Labs' *Edge Motion™* audio technology shines.

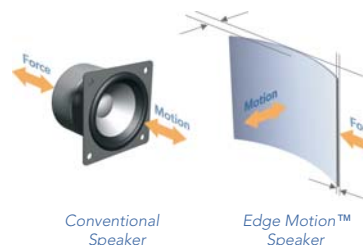
The innovative speaker systems developed by Emo Labs utilize a revolutionary new technology that fundamentally changes how loudspeakers work. Our patented *Edge Motion™* speaker systems use a very different mechanical principle to generate sound. Instead of a motor that pushes from behind, like a traditional cone speaker, *Edge Motion™* speakers actuate a thin membrane along the side in a manner that creates an extremely efficient, piston-like motion in front. Acting as two separate speakers, the resultant system is thin and lightweight, yet it produces full, natural sound across the audio range.



With *Edge Motion™* technology, pressure along the side generates perpendicular sound waves

The Difference is Clear

Edge Motion™ audio systems do more than simply produce exceptional stereo sound in a completely new way. They enable manufacturers to transform the screen of a flat panel display into a fully-integrated, high-fidelity stereo loudspeaker. Using optically transparent materials for the membrane (the radiating part of the speaker), the entire speaker system can be made invisible by building it around a display.



Even though these very thin and lightweight EMO™ loudspeaker systems produce rich, full-range audio, the sound-producing motion of the transparent "micro-flexing" membrane is not visible. This unique ability to effectively integrate a zero-

footprint, high-quality audio solution with flat panel displays also unifies the video and the stereo audio content. This unification of sound and image dramatically enhances the multimedia user experience – a significant benefit since consumers of all ages have access to more high-quality audio and video content than ever before.





Delivering Value

Because EMO™ brand speaker systems use *Edge Motion™* audio technology, they are the first and only ones that can satisfy all of the key requirements needed to make a successful and widely-deployed speaker solution for display-based consumer electronics:

- ✓ True zero footprint form factor
- ✓ Natural, full-range, high-fidelity sound and imaging
- ✓ Cost-effective for use in mass-produced CE products

For consumers, products containing embedded EMO™ speaker systems will change the way they look at – and listen to – multimedia content. Consumers can finally benefit from products that look better, sound better, and offer a more natural and realistic multimedia experience. In addition to enjoying improved performance from a smaller package, these products are simpler to use and eliminate the need to deal with separate speakers and wires.

EMO™ speaker systems also represent significant added value for the manufacturers of display-based consumer electronics. Since products using EMO™ audio solutions provide better sound in a smaller package, manufacturers can create more satisfying products. They can design with more freedom, simplify the product and improve the overall user experience while simultaneously reducing size and weight compared to other high quality audio solutions.

The Company

Originally called “Thin Film Audio”, the concept behind *Edge Motion™* audio technology was conceived as a means of dramatically enhancing the way people experienced sound with mass-produced products such as TVs, monitors and notebook computers. After validating the concept, a company was formed to commercialize what has now become Emo Labs’ core *Edge Motion™* audio technology.

Founded in 2005 and headquartered in Waltham, MA, Emo Labs is a leader in the development of innovative audio technologies that will change the way people look at speakers. The company is creating better audio solutions for leading consumer electronics companies who want to offer the benefits of *Edge Motion™* audio-enabled products to the global consumer marketplace.

The Team

Emo Labs has assembled a talented, professional team that is committed to delivering the benefits of *Edge Motion™* audio systems to the widest possible audience. The members of the senior management team have in-depth experience developing and launching both embedded and branded products in a variety of consumer electronics and high-technology markets.

- Jason L. Carlson Chief Executive Officer
- Allan J. Evelyn VP, Business Development
- Jonathan C. Mixter VP, Marketing & Strategy
- Stefan Bokamper VP, Operations & Product Management

Learn more...

More information is available at www.emolabs.com. Please register on our website if you would like to receive news and information about Emo Labs and announcements of new products containing EMO™ audio systems.

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