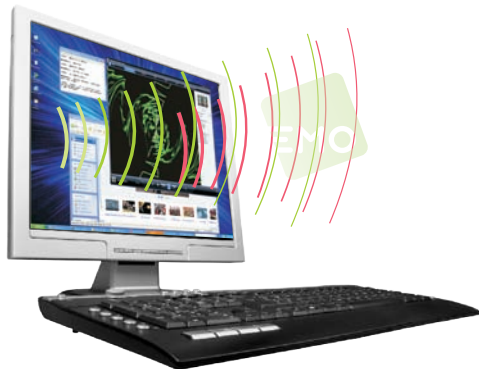




## PC Monitor Audio Solutions



EMO™ speaker systems enable slim, stylish desktop monitors to satisfy even the most demanding consumers by delivering superb multimedia performance. With patented *Edge Motion™* audio technology, a monitor can turn any computer system into a powerhouse for music, gaming, online media and videoconferencing.

### Overview

Desktop monitors with an invisible EMO™ brand Audio Solution represent a tremendous value for today's demanding PC users. In recent years, computer systems have become one of the most popular gateways for multimedia entertainment, gaming and communication. However, the shift to slimmer flat panel display designs has made it significantly more challenging for manufacturers to offer streamlined monitors that can deliver a truly satisfying multimedia experience.

Although most multimedia PC users would prefer to reduce the clutter on their desktop, it has been difficult to accomplish this without compromising audio performance. If they did not want a bulkier multimedia or gaming monitor, they were generally forced to use an external speaker system or settle for a streamlined monitor with inferior acoustic quality. With online media, gaming and videoconferencing all on the rise, this ability to deliver better audio performance in an attractive package has become a significant market opportunity for manufacturers of desktop display products.

### Audio with a Clear Difference

Emo Labs addresses this challenge with invisible, "zero footprint" high fidelity speaker systems for PC monitors. These embedded solutions use our patented *Edge Motion™* audio technology to make the speakers disappear while full-fidelity stereo sound radiates directly off the front of the display. By unifying the sources of both audio and video content, these EMO™ speaker systems make multimedia more realistic and enjoyable.

### Features

*Edge Motion™* audio solutions create value by delivering excellent audio performance in an attractive form factor that provides tremendous design freedom:

- ◆ The invisible speaker system wraps tightly around the display panel, taking up minimal space while preserving a clean, streamlined look
- ◆ A single, optically transparent membrane is two separate speakers (left and right), and provides full-range, natural sounding stereo reproduction
- ◆ Audio is directed at the listener from the front of the display, unifying the sources of audio and video content for a more pleasing and realistic multimedia experience



*The EMO™ speaker system incorporates separate left and right speakers that blend in seamlessly with the display. Full-range stereo sound is directed at the user from the front of the display, "unifying" the sources of both audio and video content.*

### Consumer Benefits

- ✓ Slim monitor with great audio quality
- ✓ Sound and video source are unified
- ✓ No external speakers or wires
- ✓ More realistic multimedia



*A desktop monitor with a built-in EMO™ speaker system is the perfect match for a multimedia computer. Full-range natural sound makes it ideal for games, videos, music or video conferencing.*

### OEM Benefits

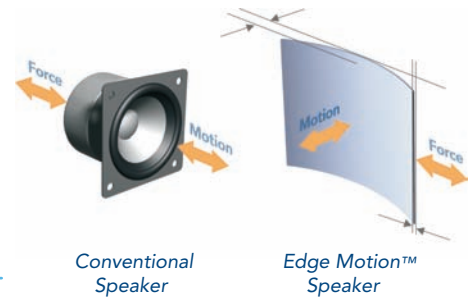
- ✓ Addresses critical market need
- ✓ Distinctive competitive advantage
- ✓ Improved audio performance
- ✓ Smaller, more streamlined products
- ✓ Better overall value

### Applications

- ✓ Multimedia monitors
- ✓ Monitors with HD TV input
- ✓ Gaming monitors
- ✓ Monitors for videoconferencing

## Edge Motion™ Audio Technology

Edge Motion™ technology fundamentally changes the way that sound is generated. The resulting speaker systems are capable of amazing audio quality and make it possible to design a better class of multimedia CE products.



### A Breakthrough in Speaker Technology

The speaker systems developed by Emo Labs use a revolutionary new technology that fundamentally changes how loudspeakers work. Our patented Edge Motion™ speaker systems generate sound based on a unique mechanical principle. 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 efficient, piston-like motion in front. The resultant speaker system is thin and lightweight, yet it produces full, natural sound across the audio range.

### Ideal for Integration with Displays

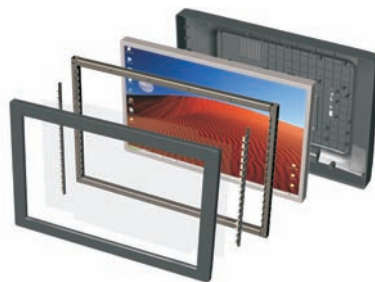
Edge Motion™ audio systems do more than simply produce exceptional sound in a completely new way. They also enable manufacturers to transform the screen of a flat panel display product into a fully-integrated, high-fidelity stereo loudspeaker. Using optically transparent materials for the membrane (the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



With Edge Motion™ technology, highly controlled pressure is applied along the side of a transparent membrane. This force generates sound waves that radiate perpendicular to the plane of that surface.

### Small Footprint, Big Sound

Although these thin and lightweight EMO™ loudspeaker systems produce rich, full-range audio, the sound-producing motion of the "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 source of both the video content and the stereo audio content. This "unification" of sound and image dramatically enhances the multimedia user experience; this is a significant benefit since consumers of all ages have access to more high-quality audio and video content than ever before.



Each EMO™ stereo speaker assembly consists of a membrane, a frame and arrays of miniature motors. As a single unit, this assembly is designed to fit tightly around the display panel, enabling it to virtually disappear into the enclosure.

### Advantages

The unique benefits of Edge Motion™ audio technology include:

- ☑ True "zero footprint" form factor means smaller, more streamlined products
- ☑ Speakers oriented towards the listener produce a more natural, full-range, high-fidelity sound and stereo imaging
- ☑ "Unifying" the sound and images provides the optimal integration of audio and video for multimedia
- ☑ Products are simpler and easier to use, with no set-up required and no additional boxes or wires

Emo Labs is a leader in the development of innovative audio technologies designed to change the way people look at speakers.

For more information on Emo Labs embedded audio solutions for display-based products, please visit our website:

[www.emolabs.com](http://www.emolabs.com)

Product inquiries may be directed to:

[BusinessDevelopment@emolabs.com](mailto:BusinessDevelopment@emolabs.com)