

Audfly's Miniature High-Performance Directional Sound Modules Poised to Reshape Audio Integration Design

LOS ANGELES, CA, UNITED STATES, August 17, 2025 /EINPresswire.com/ -- The integration of high-precision audio into ever-smaller devices has long challenged product designers. In recent weeks, China-based audio innovator Audfly Technology unveiled several new miniature [directional sound modules](#)—including the Alpha22 and Alpha43—offering a rare combination of reduced physical footprint and uncompromised performance.

The new directional audio modules, designed for seamless integration into consumer electronics and public-use equipment, are sparking interest among product managers, industrial designers, and system integrators worldwide. The release marks what some in the industry see as a potential turning point in audio system design—particularly for applications demanding lightweight, discreet, and differentiated sound delivery.

“Directional audio has historically required large or conspicuous hardware, which limited where and how it could be integrated,” said Laura Chen, an industrial design consultant specializing in audio-visual products. “Audfly’s latest modules stand out because they deliver targeted sound within a form factor that can be embedded without altering the overall device profile.”



From a design perspective, the Alpha22 and Alpha43 address two persistent integration challenges:

Space Constraints — The modules' compact design allows manufacturers to incorporate directional sound in locations previously considered too tight, such as slim displays, kiosk panels, or portable terminals.

Acoustic Performance Stability — Despite their reduced size, internal acoustic architecture and [ultrasonic technology](#) ensure clear, focused audio over defined distances, minimizing sound spill and preserving privacy.

Industry observers note that the modules could be especially relevant for digital signage, interactive kiosks, healthcare terminals, and premium consumer devices, where targeted sound delivery can enhance user experience while reducing environmental noise.

According to David Morgan, a systems integration analyst based in London, the competitive advantage lies in “making directional audio a practical design choice rather than a specialist add-on. By lowering integration complexity, manufacturers can treat it as a standard design element.”

The engineering trade-off between “shrinking the hardware” and “maintaining acoustic output” has traditionally forced compromises in performance. Audfly's approach—combining precision ultrasonic transducers, optimized housing geometry, and plug-and-play module architecture—appears to have narrowed this gap significantly.

For designers, the result is greater freedom to hide audio sources, blend sound delivery seamlessly with visual elements, and differentiate their products without large-scale structural changes.

While it remains to be seen how quickly these modules will be adopted across different sectors, early prototypes have reportedly been tested in museum exhibits, retail environments, and next-generation laptops. Feedback from trial deployments suggests improved user engagement and clearer sound in noisy spaces.

As Michael Rivera, an editor at a leading AV industry publication, put it: “The ability to add pinpoint sound without redesigning the entire enclosure could help make directional audio a standard feature in modern product design.

About the Alpha Series

Designed by Audfly Technology, the Alpha Series introduces a new generation of modular [directional sound solutions](#) created for seamless integration into kiosks, healthcare equipment, smart terminals, and digital signage. Utilizing advanced ultrasonic beamforming, the series supports plug-and-play setup and multiple mounting options, simplifying deployment for

manufacturers and integrators. The Alpha22 and Alpha43 models provide flexible, scalable choices for delivering clear, targeted, and space-saving audio—enhancing user privacy and elevating sound experiences in diverse commercial settings.

About Audfly Technology

Audfly Technology is a global innovator in ultrasonic directional sound solutions. Its portfolio spans consumer electronics, commercial displays, public terminals, and specialized audio applications. With a focus on precise sound projection and system integration, Audfly aims to advance how sound is experienced in both private and public environments.

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