Otowahr Announces Lark™ Micro Speaker Family

Ultra-Compact 3.5 mm Planar Magnetic MEMS Speakers Bring Hi-Fi Performance to Next-Generation TWS Earphones

SUNNYVALE, CA, UNITED STATES, January 13, 2026 /EINPresswire.com/ -- Otowahr, a technology leader in MEMS (Micro-Electro-Mechanical Systems) speaker innovation, today announced the Otowahr Lark™ micro speaker family, a new generation of planar-magnetic MEMS speakers designed for high-quality True Wireless Stereo (TWS) and wired earphones.

Powered by Otowahr's proprietary TrueSound© planar-magnetic MEMS technology, the Lark family delivers exceptional clarity, fast transient response, and Hi-Fi sound quality in an ultra-compact 3.5 mm diameter form factor—addressing long-standing performance and integration challenges in in-ear audio design.

Two Models for Distinct Listening Experiences

The Otowahr Lark family includes two models tailored to different listening preferences and product requirements:

Otowahr Lark™
Designed for balanced, full-range performance, Otowahr Lark is ideal for both wired and wireless earphones. Its low-profile, compact design enables deeper in-ear placement, improving comfort, stability, and acoustic accuracy—especially for all-day wear and active use.

Otowahr Lark™ Alto
Optimized for extended high-frequency performance, Otowahr Lark Alto targets wired earphones and audiophile-grade listening, particularly for classical and acoustic music. When paired with a simple bass driver—without requiring a crossover circuit—it delivers a coherent full-range sound signature suitable for a wide range of listener preferences and product designs.

Breakthrough Planar Magnetic MEMS Architecture

Otowahr's electro-magnetic MEMS micro speaker represents a fundamental departure from conventional dynamic drivers. Key innovations include:

- A carefully selected planar membrane material combined with a unique magnet-coil arrangement to improve acoustic efficiency while reducing overall size
- An elastic planar diaphragm structure that preserves low-frequency performance despite its miniature form factor
- A monolithic semiconductor-based design that enhances dimensional precision, driver matching, manufacturability, and production scalability

Designed for Efficient System Integration

Otowahr Lark micro speakers are engineered to simplify earphone design and accelerate time-to-market:

- Flat impedance across the full frequency range, enabling easier impedance matching and lower power consumption
- Dipole acoustic architecture, producing symmetrical sound radiation on both sides of the diaphragm
- SMT-friendly construction, reducing manual assembly compared with traditional dynamic drivers
- Ultra-small footprint, providing maximum flexibility for industrial designers to tailor products for different audiences and use cases

Product Highlights

Otowahr Lark™

- Planar-magnetic MEMS micro speaker
- Compact, low-profile design for in-ear earphones
- Supports deeper ear-canal placement for secure, comfortable fit—ideal for running or jogging
- Accurate sound reproduction from 40 Hz to 15 kHz

Otowahr Lark™ Alto

- High-frequency-optimized planar-magnetic MEMS micro speaker
- Designed for wired earphones and high-resolution audio applications
- Wide frequency coverage from 40 Hz to 20 kHz
- Easily paired with a simple bass driver for both wired and wireless designs

About Otowahr
Otowahr is a fast-growing MEMS technology company enabling customers to bring next-generation audio products to market. The company’s core value lies in combining radical miniaturization with uncompromised sound quality through advanced MEMS speaker innovation.
Learn more at www.otowahr.com

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