

## The Evolution of the High-Fidelity, Compact Microphone Delivered by PUI Audio

oday's Electronics Industry is filled with devices driven by voice —smartphones, headsets, tablets, laptops, wearables designed for voice capture and voice control.

Until today, these devices were built with capacitive MEMS microphones that operate on principles that were developed almost one-hundred years ago.

Enter the piezoelectric MEMS microphone from PUI Audio:

Instead following the design of traditional capacitive MEMS microphones, trapping air between layers, PUI Audio's piezoelectric MEMS diaphragm travels freely with sound making for **improved fidelity** and **noise-rejection**. The full range **PMM-3738-WP-R** features a 100 Hz to 10 kHz frequency response to cover 95% of the audio band, while wind noise on the **PMM-3738-WP-2-R** is limited due to a smart 250 Hz roll-off perfect for automotive and outdoor applications.

Capacitive MEMS are also notorious for degraded performance due to dust and water ingress —losing up to 80% of sensitivity, if not failing completely. PUI Audio's MEMS microphone is **dustproof** and **waterproof** (IP68 rated), without the use of performance degrading mesh, and is built with better unit-to-unit consistency for array applications.



