



## Putting Voice to the Test

Those who design smart speakers, IoT products, robots, and smart appliances know that keyword and speech recognition capabilities of voice-controlled devices improve significantly when the acoustic signal of interfering noise sources is suppressed.

Alango Blind Interference Cancellation "BIC" DSP software technology suppresses interfering noise in realistic use cases. This demo video shows a smart device mockup with 3 microphones near a TV that is playing three different video clips. The signal you hear is the signal recorded by the device's microphones in quiet and noisy environments. The device is completely independent of the TV. Meaning, there is no reference signal provided to the device and acoustic echo cancellation is not possible. The only indication the device receives is that the TV program is running continuously, while the user command is a new acoustic event to be separated from the continuous background. You can appreciate the performance when BIC technology is switched ON and OFF.

BIC is integrated into the 2nd generation of Alango's proprietary Voice Enhancement Package of software technologies, which include multi-channel echo cancellation (not shown in this video) and far-field beamforming technology. The output from BIC can be fed into any speech recognition software used to interpret user commands. Alango BIC is low footprint (MIPS

and RAM), and is licensable for smart speakers, IoT, and other voice-controlled devices.

[Watch Demo Video →](#)



## Voice Call Showdown

According to Sennheiser's description of their new Momentum TWS 3, “three advanced noise cancelling microphones on each earbud ensure people only hear you and not your surroundings.” We couldn't agree more! The beginning of this review demonstrates the exceptional voice-call performance of the Momentum TWS 3.

[Momentum TWS 3 VS WF-1000XM4 →](#)

Alango's OnlyVoice technology intelligently mixes the signals of an in-ear sensor, such as a microphone or accelerometer with an external beamforming array for exceptional voice clarity even in noisy environments. The technology used in Momentum TWS 3 takes this principal into account and other factors to deliver the best possible user's voice for speech communication and speech recognition.

[Alango OnlyVoice →](#)

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**As always, we look forward to hearing from you!**

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