

CEVA WhisPro is an advanced speech recognition software technology providing always listening voice trigger and commands for voice-enabled devices

WhisPro™ SDKit is a neural network-based software package, allowing customers to add voice trigger and commands to voice-enabled IoT device.

Key Benefits

- Optimized for always listening devices, enabled by a customized voice trigger.
- Highly optimized multi voice triggers, enable simultaneous access to multiple voice assistants.
- Application specific and customer specific tailored voice commands.
- Integrated with Google's TensorFlow Lite for Microcontrollers, accelerating the development of small footprint voice assistants and other voice controlled IoT devices.
- Minimizes power consumption and computational resources for edge devices, while delivering a high recognition rate of >95% without the need for cloud connectivity.
- Scalable RNN speech AI technology is capable of handling a single trigger phrase, as well as simultaneous multi trigger phrases, for supporting multiple AI assistants.
- Speaker independent, pronunciation agnostic, and support multiple languages.
- Built-in noise immunity to improve user experience in noisy environments at home, car, and outdoors.
- Operates in tandem with CEVA's ClearVox front-end voice processing software technology and offers a complete speech recognition solution with state of the art noise reduction and AEC for barge in capabilities.

WhisPro System Architecture



Target Markets



Availability

WhisPro SDKit is available for licensing exclusively for CEVA-BX1, CEVA-BX2 and SensPro family, as well as Arm CPUs, and is compliant with main tier-1 voice assistant services.

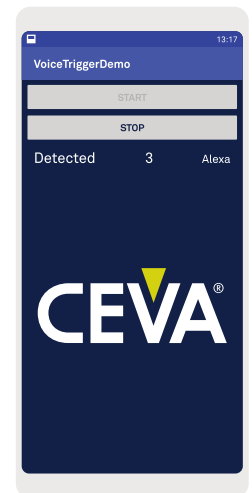
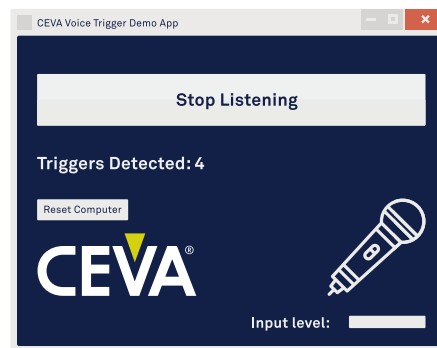


Customization

WhisPro can be customized to work with any set of customer defined voice triggers and commands to deliver a cost-efficient, highly-accurate, and noise-immune speech recognition engine.

Evaluation

WhisPro SDKit is provided with a Windows/Linux/Android packages for quality evaluation, integration, and testing in customer's system.



Smart Speaker Reference Design

> Combined input and output processing:

- Speech recognition and noise reduction – using a configurable number of mics from 1 to 8
- Audio playback – decode and post-processing

> A full set of drivers and add-on software such as:

- Beamforming
- Acoustic Echo Cancellation
- Direction of Arrival
- Voice Activity Detection
- Codecs

CEVA WhisPro development board



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