CrispMic® II Developer Module

The Far-Field, Microphone Array PCB to Boost Your New Product Design

Quote & Licensing:
sales@vocalife.com

Applications:
- IoT voice control
- Home automation
- Speech recognition
- Smart speaker
- Far-field recording
- Video conferencing
- Voice fingerprint
- In-car voice control
- Hands-free
- Noisy environments

Technologies:
- Microphone array
- Far-field sound capture
- Sound source localization
- Adaptive beam forming
- Noise reduction
- Noise cancellation
- AGC / Equalization
- Highly-sensitive MEMS digital sensors

Vocalife LLC
Texas Office
7300 Lone Star Drive, C200
Plano, TX 75024
USA

New Jersey Office
23 Vreeland Road
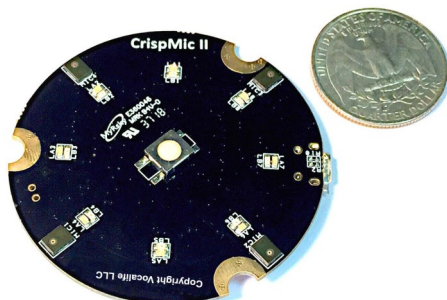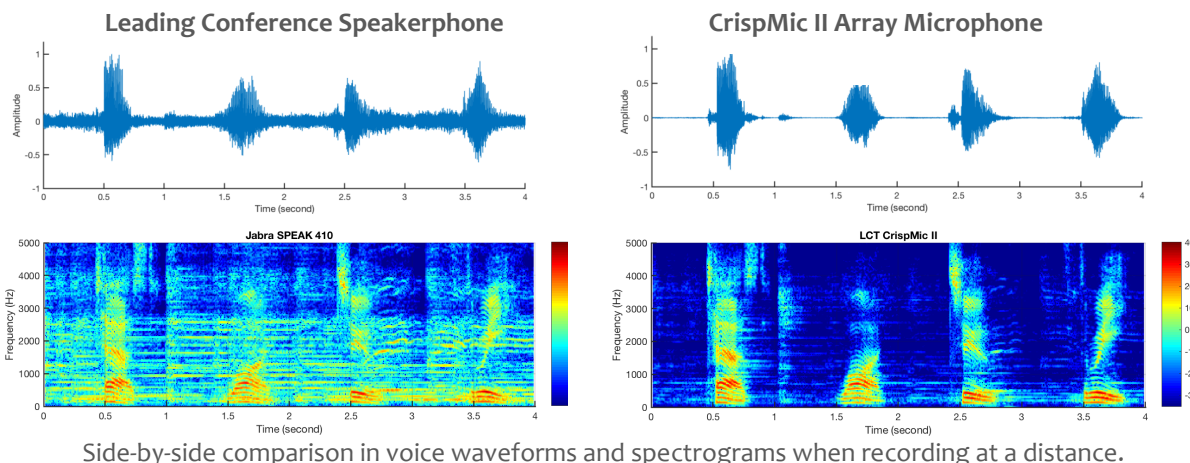Suite 115
Florham Park
NJ 07932
USA

Vocalife LLC is a sister company of Li Creative Technologies, Inc.

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Side-by-side comparison in voice waveforms and spectrograms when recording at a distance.

Name / Model No.	Description
CrispMic—PCB C2M4-B1D1A1-P	Voice capture in noisy environments, IoT far-field voice control, recording, smart devices, etc. One dynamic acoustic beam pointing and tracking to the person who is speaking in 360 degrees.

Features:
- Far-field array microphone supports social distancing, 5 m (16.4 ft).
- Full 360 degree voice pickup by acoustic beam forming. Real-time voice tracking.
- Outstanding voice quality in noisy environments.
- Advanced noise suppression for various kinds of noises.
- Clear and crisp voice quality even in noisy environments, such as service desks/counters, stores, restaurants, voice control panel, busy offices, call centers, and vehicles.
- One key mute operation with LED indicator.
- Built-in LEDs to indicate sound source direction.
- Micro USB plug and play on PC, Mac, or Raspberry Pi. Pre-installed software.
- Near perfect speech recognition accuracy when talking from 5 m (16.4 ft) away.
- Powered by advanced AI and DSP technologies.
- Compatible with Windows, Mac OS, Chrome OS, and popular Linux systems (Ubuntu, Fedora, and embedded oriented builds)

Specifications:
- **Distance:** Recommended up to 5 m (16.4 ft).
- **Acoustic beam:** Dynamic 360 degree acoustic beam forming and voice tracking.
- **SNR (signal-to-noise ratio):** Measured at 1 to 5 m (3.2 to 16.4 ft): all > 96 dB
- **AI & DSP Boost:** High fidelity speech with both clear formats and consonant fitting ASR.
- **Output:** 16-bit PCM
- **LEDs:** 16 (2 colors x 8 groups) to indicate sound source and acoustic beam directions.
- **Acoustic Sensors:** Four highly sensitive digital MEMS microphone components.
- **Array Configuration:** Circular 4-microphone array.
- **Dimensions:** 5.2 cm (2.1 in) diameter.
- **Frequency Response:** 100 Hz – 16000 Hz
- Enclosure with steel base available (Model #: C2M4-B1D1A1-D).
- Customized algorithms and services for special applications available (sales@vocalife.com).

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