krisp

Krisp Voice SDK

Krisp® AI-powered voice technology software is integrated into more than 100 million devices and has improved over 10 billion minutes of voice communications.

Krisp's Voice SDK provides breakthrough speech enhancement capabilities for Real-Time Voice Communications in the form of embeddable C and JS Libraries.

AI-powered voice technology stack

Krisp Technologies, Inc. is the leading developer of next-generation voice and audio technologies. Our award-winning software-based noise suppression technology is leveraging our Deep Neural Networks to achieve an unprecedented level of noise immunity and voice quality.

Krisp has been deployed in over 100 million devices and has improved more than 10 billion minutes of voice communications.

Today, Krisp is serving companies around the world with our applications, and Krisp is also powering Discord, the world's leading gaming messenger with millions of its users utilizing and transmitting voice daily.

Krisp technologies features:

- ✔ Independent of microphones, speakers, hardware and spoken languages

- ✔ Supports ARM, Intel x86, AMD, NVIDIA GPU (Cuda 9+)

- ✔ Does not require specific graphics card, and scales significantly when deployed in GPUs

Krisp SDK can be integrated into:

- ✔ Desktop applications (Mac, Windows, Linux)

- ✔ Mobile applications (Android, iOS)

- ✔ Embedded devices (2-way radio, headsets, smartphones, automotive)

- ✔ Web applications (Chrome, Firefox, Safari, IE)

- ✔ Cloud and media servers (e.g. WebRTC, Asterisk, FreeSWITCH)

Superior quality and easy integration

Noise Suppression (Real-time)

- ✔ High-quality Noise Suppression for both uplink and downlink communications

- ✔ Passes TS26.131/132, Skype, HD Voice/HD Voice+ quality tests

- ✔ Supports a dynamic range of audio sampling rates: 8kHz-48kHz

- ✔ Minimal latency impact (15ms)

- ✔ Operates on 10ms, 20ms or 30ms audio frames in PCM Int16 format

- ✔ Consumes 8MB-55MB RAM and storage depending on the model

Noise Level Detection (Real-time)

- ✔ Detects the noise level in audio streams

- ✔ Consumes minimal CPU resource

Noise Suppression (Post-Processing)

- ✔ Removes noise from audio files

- ✔ Provides superior quality in difficult noise conditions

Noise Suppression and Dereverberation (Real-time)

- ✔ Combined Dereverberation and Noise Suppression

- ✔ Minimal latency impact (15ms)

- ✔ Operates on 10ms, 20ms or 30ms audio frames in PCM Int16 format

- ✔ Consumes 30MB RAM and storage

Voice Activity Detection (Real-time)

- ✔ Noise-Robust Voice Activity Detection

- ✔ Precision: 97%, Recall: 95% in low SNR conditions.

- ✔ Level of aggressiveness is configurable

- ✔ Operates on 10ms PCM audio frame and returns a probability of voice presence

- ✔ No latency

- ✔ Able to process real-time on 200MHz ARM processor

- ✔ Consumes 1MB RAM and storage
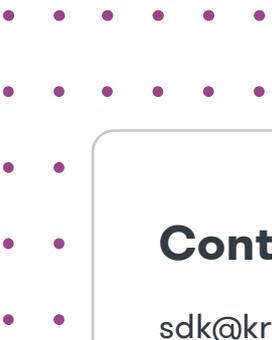
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Krisp product sheet Voice SDK