

Company Overview

Since 2001, voice INTER connect GmbH has been active in the areas of signal processing and speech communication as a service provider and technology supplier and offers solutions for voice control, microphone arrays, intercom products and VoIP-based communication devices. Our products, development and integration services cover a wide range of applications.

The company was founded from the internationally renowned Institute of Acoustics and Speech Communication at the University of Technology Dresden. Since 2003, a sales office has been present in Stuttgart. At our headquarters in Dresden, 30 engineers from various disciplines (e. g. electrical engineering, acoustics, computer science, phonetics) work for customers from all over the world.

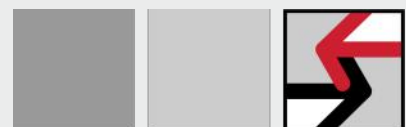
Main Activities

- Embedded software development
- Intercom solutions
- Speech processing (voice control, synthesis, dialog development)
- Audio / acoustic measurements
- Hardware development
- Solutions for signal processing and machine learning based on deep neural networks and AI-based signal classifiers

Solutions

- Local and cloud-based voice control or voice dialog systems for machines, medical devices, door communication and smart home
- Hands-free communication and multimedia in cars, commercial and emergency vehicles
- Communication systems for industrial intercom products, emergency call stations, elevators and hospitals (based on various transmission media: analog, VoIP, GSM, wireless)
- Nuance speech synthesis solutions

voice INTER connect GmbH
Smart Signal Processing.



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Services

Speech Dialogs

- Creation of user-centered speech interface design (SUI)
- Functional analysis of target applications, semantic modelling and user adaptation
- Multilingual vocabulary and dialog creation
- Integration in target application or device
- Optimization of robustness in the target environment
- User-centered validation
- Server-, cloud-based, hybrid and embedded speech recognition

Signal Processing

- Beamforming, beamsteering, dereverberation
- Real-time transmission of audio / video data via proprietary bus protocols, embedded streaming, compression, real-time ethernet support
- Processing: AEC, NR, VAD, audio / video quality enhancement, embedded video codecs

Audio Measurements

- Hands-free kits and communication systems
- Acoustic evaluation of audio systems
- Measurement under real environmental conditions
- Specific measurement protocols for each scenario
- Workshops for the evaluation of measurement results

Intercom Solutions

- Development of digital audio and video communication
- Multimedia applications and synchronized audio playback via IP-networks
- Acoustic product design
- System design and implementation

Embedded SW / HW Development

- Integration and customization of VoIP and SIP frameworks
- Firmware and driver development for RTOS
- System integration
- Development of hardware prototypes
- Support in product launch

Products

vicCONTROL

- vicCONTROL DSP 3: Development kit for the individual configuration of voice control
- vicCONTROL DSP 3 stamp: Miniaturized module for local voice control of devices, machines and plants
- vicCONTROL Industrial SDK: embedded voice control for ARM platforms

vicCOM

- vicCOM 2: Intercom module for hands-free processing and noise reduction in communication devices
- vicCOM-complete 2: System kit for hands-free processing for the integration in communication applications
- vicCOM-GSM-complete: System kit for hands-free communication, measurement and control via GSM network

vicHSES -

Hands-Free Speech Enhancement Suite

Signal processing library with algorithms for speech enhancement, acoustic echo cancellation and noise reduction

vicMSES -

Multichannel Speech Enhancement Suite

Signal processing library with algorithms for beamforming, localization and dereverberation

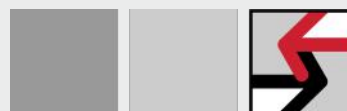
vicMEDIA

VoIP / SIP framework for speech communication and media transmission

vicDIVA -

Distant Voice Acquisition

Speaker localization and robust detection of speech signals in the room



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voice INTER connect GmbH
Ammonstraße 35
01067 Dresden

Tel.: +49 351 407 526 50

info@voiceinterconnect.de
www.voiceinterconnect.de