



World's #1 Supplier of Voice and Multimodal Solutions for Automotive and Navigation Systems



Brochure - Nuance Automotive Solutions

Powering Innovative Embedded and Connected Speech Solutions

Today more than 25 million cars and 20 million portable navigation systems are equipped with Nuance speech technologies. Why?

Nuance solutions, which span speech recognition, text-to-speech, signal enhancement, predictive text and more, provide state-of-the-art interfaces to in-car navigation, entertainment and telematics systems to keep drivers safe behind the wheel.

Less Driver Distraction

A voice user interface reduces visual distraction of car drivers by a factor of 2 – 3 compared to manual operation of in-car systems resulting in significantly better driving performance.

(In-Car Distraction Study, University of Braunschweig, June 2008)

Better User Experience

“Overall navigation system satisfaction is positively impacted by the presence of voice recognition. Among owners who report having the feature, satisfaction averages 7.7 compared with an average of 7.2 among owners of systems without voice recognition technology.”

(J.D. Power and Associates Reports, December 2009)

Higher User Acceptance

The majority of car drivers with speech enabled navigation systems (~75 %) stated that they favor a speech-enabled interface while driving.

(Automotive Voice Interface User Survey, Maix Research & Consulting, March 2009)

GUIDING YOU SAFELY TO YOUR DESTINATIONS

No more distracting button pressing and screen tapping. Nuance lets drivers have full control over their navigation system just by using their voice, keeping their hands on the wheel and their eyes on the road

- Address entry and Point of Interest (POI) search by voice
- High quality route guidance including read-out of streetname and traffic alerts
- Command and control of navigation settings and functions by voice

SAFELY COMMUNICATE

With Nuance, drivers can safely stay connected behind the wheel with solutions that leverage natural voice commands to:

- Dialing by voice (by contact name or number)
- Hear caller announcement and accept calls
- Listen to text messages via text-to-speech technology

SAY IT, PLAY IT: TUNE IN WITH YOUR VOICE

Nuance provides automotive solutions that enable drivers to control their full car infotainment system, including radio, satellite radio, CD player and MP3 player with their voice

- Select music title, artist, album or playlist
- Select radio station or program
- Hear what's playing now via fully integrated text-to-speech
- Control audio settings and functions

SPEAKING TO YOUR CONNECTED CAR

Nuance provides seamless access to all connected services —both on-board and off-board — via a single, consistent voice user interface. Nuance solutions combine the best of Nuance's foundation technologies, embedded speech solutions, and network-based speech applications to give today's drivers safe, intuitive access to the complete “connected car” experience through a truly unified voice user interface.

- Real-Time Weather and Traffic Information
- Location-Based Services
- Web search by voice
- Message dictation
- Music Access from the Web
- And much more...

For over a decade, Nuance has been driving innovation in the automotive market. Committed to developing groundbreaking speech products and technologies Nuance enables drivers to interact with a broad range of systems and devices entirely by voice for optimal safety. The result? Complete access to and control of system and device features and functions without the manual and visual distractions that can put drivers at risk behind the wheel.

Nuance Automotive Market Leading Offering

VoCon 3200

A complete development suite designed for adding speech recognition functionality to a variety of automotive and other embedded applications

- Highly accurate recognition of natural, conversational input
- Noise robust front-end
- Low CPU & RAM requirements
- Large vocabulary support
- Natural Language Understanding (NLU)
- One-shot destination entry & music search
- Partial title music selection
- Support for multi-lingual input
- Industry's largest language portfolio

VOCALIZER FOR AUTOMOTIVE

A text-to-speech (TTS) solution designed for navigation and automotive human-machine interface (HMI) applications

- High quality, natural sounding TTS
- Highly scalable solution
- Easy integration of recorded prompts and TTS
- Multi-lingual support
- Vocalizer Studio for high quality prompt tuning
- Industry's largest language portfolio

VoCon SSE

A suite of signal enhancement technologies that improves the quality of hands-free telephony and speech recognition applications in cars

- Robust full duplex echo-canceller
- High-quality noise reduction
- Adaptive microphone self-calibration
- Echo and noise suppression
- Beamforming and post-filtering
- Generic beamformer implementation

XT9 SMART INPUT

A multimodal user interface solution that completes common words based on partial input

- Smart text entry solution
- Form Factor Versatility
- Support of input mode transitions
- Regional error correction
- Extensive Language Support

NVC AUTOMOTIVE

The industry's first solution to provide seamless access to connected services

- One single, consistent voice user interface for on-board and off-board services.
- Customizable set of gate commands trigger access to Nuance's remote speech applications
- Ability to add services over time
- Industry-Leading Language Support

PROFESSIONAL SERVICES

A global organization of experts that provides fully built and tested integrated speech interfaces and full life-cycle support

- Concept support and system specification
- User interface design
- Application development
- Localization
- Functional validation
- Testing and tuning
- Sales and marketing