

TrulyHandsfree™ Voice Control Mobile & Automotive Speech Recognition *Triggers & Commands*

Sensory offers a complete suite of solutions to voice activate your application. Voice user interfaces (VUI) can be integrated to make exciting, state-of-the-art products by adding speech prompts and speech recognition command sets. **TrulyHandsfree™ Voice Control** is the newest VUI offering from Sensory. It's a unique and powerful way to control a product without touching it.

TrulyHandsfree™ Voice Control can be added to enable products that wakeup and respond when their name is called, so no button pressing or manual manipulation is needed for implementing voice control. This technology is extremely robust to noise and designed to prevent false triggers during normal room noise and conversations. The trigger name may be the product brand to help build customer loyalty and brand awareness. Voice triggers are increasingly popular for in-car use to aid in safety and for in-home use for convenience.

TrulyHandsfree™ Voice Control uses Sensory's unique speaker independent phrase spotting technology, which allows a trigger phrase to be spotted when embedded in a longer phrase, and in high levels of noise. Sensory hand crafts these triggers to exacting standards, and the speaker independence allows them to work right out of the box with no user training. The top level menu may include multiple spotted phrases which combine the trigger and command functions to remove one layer of interaction and allow the user to move directly to product control. These technologies are deployed in Sensory's FluentSoft SDK.

Languages currently available include (with more in development):

- US, UK and Australian English
- EU French and Canadian French
- US and EU Spanish
- Italian
- German
- Mandarin
- Japanese
- Korean

A variety of Operating Systems in combination with ARM cores are supported including:

- Android
- iOS
- Windows
- Windows Mobile
- available later in 2011 - Windows 7, Brew, QNX

Voice Recognition System Requirements

- ~40MIPS for triggers
- ~100MIPS for a command set (depending on the number of commands)
- Code/Const storage
 - ~280KBytes for a trigger
 - ~470KBytes for a command set (depending on the number of commands)
- Data RAM
 - ~20Kbytes for a trigger
 - ~80Kbytes for a command set (depending on the number of commands)
- One 16-bit ADC channel with a 16KHz sample rate, including microphone and pre-amplifier
- 40mW @ 1V for triggers

Leaders in Speech Technology for Consumer Products