

Smart Microphone Keyword Selection Guidelines



The IA61x Smart Microphone's algorithm can activate the system using an OEM keyword; it also has a user training option.

Two types of keywords are supported:

- OEM-specific (OEM) — Works out of the box; no user enrollment is required. However, it does not differentiate user accents, possibly causing an accidental activation by others close-by. Also, it is not ideal for mobile use, where others might inadvertently cause activation.
- Voice ID (Trained OEM) — Activated only by user's voiceprint (the end-user's vocal characteristics and speaking style). The word or phrase choice is determined by the OEM. However, there is a possible discrepancy between the keyword during training and when used later by the same person.

A good keyword or keyphrase has the following attributes.

- Unique: Use a word or phrase that is not likely to occur in everyday conversation. Unique words or phrases lessen the likelihood of inadvertent activations.
- Between four and seven non-repetitive syllables: Distinct syllables provide more information for the activation algorithm; repeating a syllable lessens the information in a phrase.
- Spoken the same way by most people using that language (for OEM-specific Keywords). The detection accuracy of

the IA61x increases greatly when there is minimum variation in the way the chosen word or words are pronounced among speakers of a particular language.

General guidelines for best performance in Voice ID are:

- Be articulate. Enunciate clearly. Don't slur or combine syllables; leave a slight pause between words. "What Do You Want" works better than "Whaddayawant"; "Open Sesame" is better than "Opensesame."
- Be consistent. Use the same voice and inflection when speaking the syllables. Have the stress on the same syllable each time. If you say "ACTivate Now," don't change to "Activate NOW." Do not use synonyms ("ACTivate Immediately" or add words (such as "ACTivate Right Now").
- Be willing to accommodate the features of the Smart Microphone. Learn how to use the voice activation feature; understand its strengths limits; test different words or phrases to maximize the speech recognition capabilities of the IA61x.



Revision History

Revision	Changes	Date
1.0	Initial release.	Nov 21, 2017
1.1	Corrections to text.	Jan 23, 2019

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