



Voice Control

by Intelligent Gadgets

Play synths by singing into your iPhone/iPod Touch

Voice Control is a wireless MIDI controller that converts the pitch of your voice into signals for controlling MIDI devices networked to your computer.

How to use:

Mac Users: Download a wireless MIDI interface such as DSMidiWifi (<http://dsmi.tobw.net>) and install on your computer.

Launch Voice Control on your iPhone or iPod Touch.

Connect your device's MIDI stream to the synthesizers you want to control. For example, on a Mac use Audio MIDI Setup to connect your iPhone/iPod Touch to Garage Band or other MIDI units networked to your computer.

PC Users: Be sure to install the latest version of iTunes, which contains Bonjour for Windows.

Then install rtpMIDI, which is available free at: <http://www.tobias-erichsen.de/rtpMIDI.html>. rtpMIDI on the PC looks and functions like Audio MIDI Setup on the Mac. rtpMIDI will detect your iPhone/iPod touch when Voice Control is running. Start a new session in rtpMIDI and then you will be able to select the session as a MIDI input device from within your DAW or other MIDI setup.

Start singing. You can even harmonize with others on the same wireless network using two or more Voice Control apps.

Voice Control features:

- Select your vocal range – from bass to soprano (center picker wheel)
- Shift the pitch of converted MIDI signals up or down (right picker wheel)
- Display the note you are currently singing (left picker wheel)
- Sliders let you change the input audio level and the amount of pitch “smoothing”
- Tap “Set Up” to switch to the “Control” screen

- Control the volume and expression in real time using the x-y control pad while you sing
 - Rotate the device to pan the sound left to right
-

Notes:

- 1) To avoid feedback headphones are recommended but may not be necessary in all situations.
- 2) The accuracy of the pitch detector varies depending on the quality of your voice, the amount of background noise and other factors.
- 3) Increasing the amount of pitch smoothing will increase the latency (delay) between your voice and the synthesizer
- 4) The pitch detector will not follow rapid changes in pitch
- 5) *Voice Control* works best when using your voice to control longer duration sounds like strings, pads, and textures.

Acknowledgement

We would like to thank Pete Goodliffe for sharing his Midi Monitor code.