



MIDI Recorder

by Intelligent Gadgets

Converts sounds to MIDI files

MIDI Recorder converts musical sounds picked up by the microphone into MIDI files.

How to use:

Tap “Metro” to use the slider to set the number of beats per minute. The light blinks at the desired rate. (Not active for older iPhone 3G). The app operates at a fixed sampling rate of about 20 samples per second. As a result the metronome can be set only at certain values.

Tap “Range” to use the slider to set the input frequency range (3 octaves wide) from C2-C5 to C4-C7.

The display below the slider shows the musical spectrum, which is useful in determining the frequency range. Time history shows recent notes. Notes are color-coded using the same color scheme for the time history and spectrum.

Tap “Record” to start recording and “Stop” when you are done. To listen to the notes detected by the app and converted to MIDI, tap “Review”. If you are satisfied, tap “Save” to store the file in the documents directory. The name is the date and time of the recording, e.g., 20110131_150510.mid).

MIDI files can be exported in three ways. 1) email, 2) wirelessly using the iPhone’s HTTP server, and 3) by iTunes File Sharing. Enter the URL displayed at the bottom of the screen (e.g., <http://10.0.1.11:64249>) into a web browser that is on the same network as the device. Files can be downloaded from the server. If the device is plugged into your computer files can also be transferred using iTunes File Sharing. To access the document directory connect your device to your computer and open iTunes. Select the device and tap its “Apps” tab. File Sharing appears at the bottom (you might have to scroll down to see it). Select MIDI Recorder to see the contents of the documents directory on the right.

Certain app settings can be changed using the Settings App, which is found on the desktop. The window sets the number of samples (subdivisions) per beat. This

determines the available metronome settings. The other MIDI settings are for the output file and do not affect the preview, which is just a simple tone for listening. The DSP values do not have to be changed under normal conditions. If MIDI Recorder is picking up harmonics instead of the fundamental pitch, adjust the input range setting first, but try lowering the fundamental threshold should that fail. Increase the squelch level for loud background noise and the smoothing to reduce jitter.

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