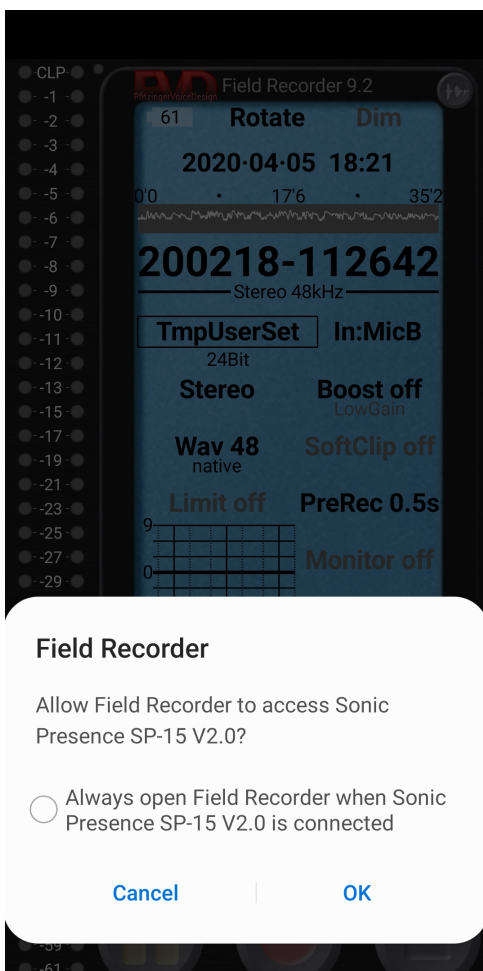


Field Recorder - Android

Audio Recording App – with capability of recording up to 96kHz, 24-bits resolution.

<http://www.pfitzingervoicedesign.com>

Field Recorder is an Android App with many built-in functions. We recommend you visit their website where you'll find a great deal of useful information about how to use this App's special functions. When you start up the Field Recorder App with the SP15C microphone connected, you will see a message indicating the App recognizes SonicPresence®. When this message appears, tap "OK" to proceed to the App's Main Screen.



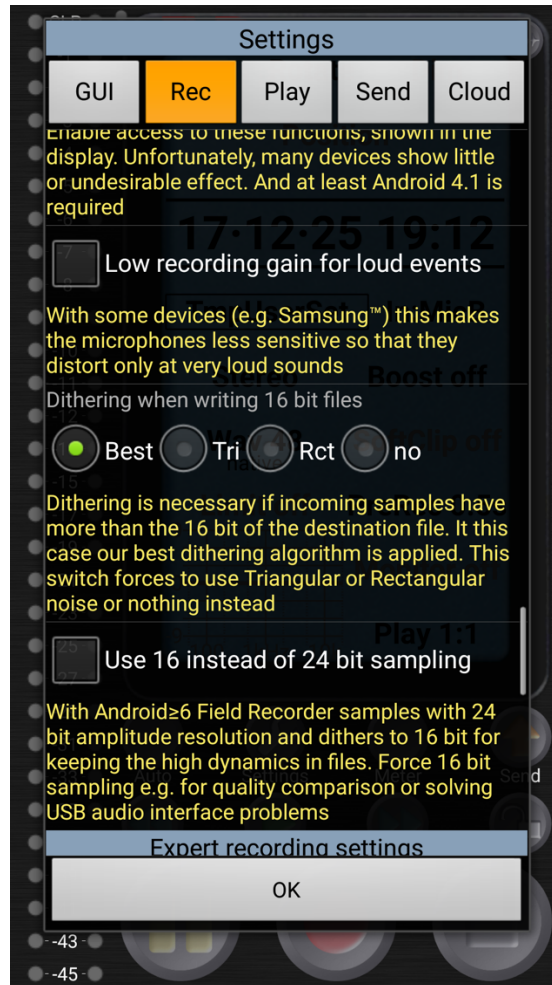
The Main Screen of Field Recorder has large transport buttons, very visible meters and an intuitive menu with all the important functions clearly visible. Note: the “Boost” function is Mic Volume.

Press the “in Mic” button to select a microphone input. There are five selections to choose from. We found the “in: Mic B” works best with Sonic and our Galaxy phone.

Pressing the Pause button(yellow) puts the App in Monitor Input mode, so you can see your signal levels on the meters. The meters in this App are remarkably accurate. Press the “Meter” button to bring up a menu for setting the meter parameters. Select “Stereo” format and set the file type to “Wav 48” for 48kHz sampling. When you are ready to record, press the big Red button.

You cannot reduce the Mic Volume with this App. You can increase it by pressing the “Boost” function. It brings up a slider control with up to 50dB of gain. Be careful! We recommend you leave it set to “Boost off”. We’ve set the internal gain of Sonic’s SP15 so that a 0dB indication on the meters is equal to 120dB SPL (Sound Pressure Level). That’s loud and should provide sufficient headroom to work well for most music recordings. If you’re recording something very quiet and need some gain, here is how:

Click the “Settings” button on the Main Screen to bring up the following menu. Select “Rec” to bring up the Record settings.



Here you have a lot of options for setting recording defaults. You’ll find the “Boost” function only increases the Input Level, so be careful. Don’t drive the meters to the top of the scale, which will cause distortion. There’s an option labeled “Low recording gain”, but that only works for the internal microphone. You also see there is an option to reduce the recording word size to 16 bits from the default depth of 24 bits. We recommend you keep your original files in 24-bit format for best quality. When you export a file this App automatically “dithers” the resolution from the 24-bit internal format to a 16-bit output in the file format that you specify (WAV, AAC). Dither is beyond the scope of this manual, but you can read about it here: <https://en.wikipedia.org/wiki/Dither>



The Mic Volume control for this App is labeled “Boost.” It is calibrated. However, it only boosts the level from nominal 0dB. You cannot decrease the gain below 0. We calibrate the Sonic sensors, so 120dB SPL will equal 0dBFS (Full Scale) at the 0-gain setting. You can increase Mic Volume by as much as 50dB using the Boost control. This is a very large increase, which can easily result in distortion. Use caution when making this adjustment.

The dynamic response of this App is very linear, which means that changes in the Mic Volume cause linear changes in the Output Level. There is no compression taking place. Your recordings will capture the full Dynamic Range of any performance.

The App’s meter scale follows no particular industry standard however, the Meter Menu gives you several choices for setting the range of the meter’s scale and the behavior of the display (ballistics). There is also a button at the top right of the Main Screen that opens a waveform display and a spectrum analyzer. Pretty neat stuff!