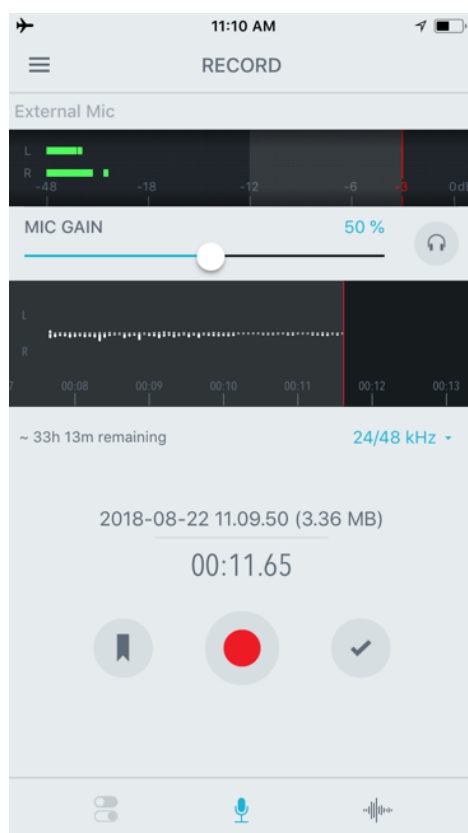




# ShurePlus™ MOTIV – iOS

Audio Recording App – sampling frequency 44.1/48kHz, 16 or 24-bit output file size

ShurePlus™ MOTIV is a clear, straight forward App for recording stereo audio. The main screen has the basic transport controls, a simple waveform display of the audio track and easy to read level meters. There is a clear indication at the top of the screen whether the source is External Mic (Sonic SP15C USB-C) or Built-in Mic. When the input is External Mic the meter will show the left channel (top bar) and right channel (bottom bar). Located below the meters is the MIC GAIN. If you don't see this slider control, then unplug your SP15C and relaunch the app.

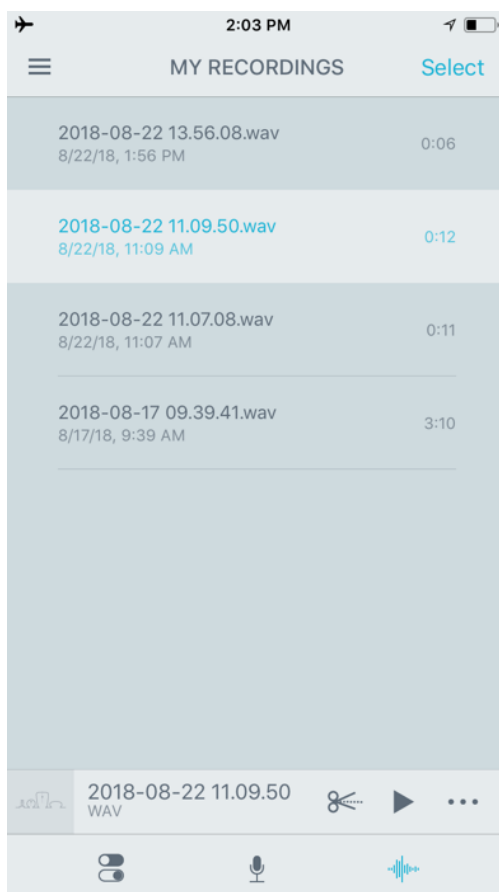


The MIC GAIN should be set to 50% when the App starts up. That's the nominal setting for the SP15C so when the meter registers the top red led, the level is 120dB SPL. Located just below the waveform display on the right is the sampling rate selector. It toggles between 16 and 24-bits and 44.1 and 48kHz. The recording file format is .wav. There is a utility for converting the .wav file to .aac after the recording is finished. Operation of this App is very simple: You push the red "Record" button to start recording. Push the "Pause" button to stop recording. Push the "Check" button to save your recording. That's it!

## Troubleshooting: USB Mic Input Control Not Showing



The USB interface sometimes gets confused trying to figure out what controls are available. This is particularly true when you switch between Apps. Best practice is to make sure you close all Apps that may be running in background. Once you do that, restart your choice App. The Mic Input should appear correctly. If not, do this:



Pressing the MY RECORDINGS button at the bottom right of the screen shows the library of recorded files. Select a track from the menu and push the PLAY button on the bottom right of the screen. You can also press the “scissors” icon to show a waveform display, which allows you to position the play cursor anywhere in the track. The meters do not function in playback mode.

### Our Meter check and Level testing (see Section 7) reveal the following:

The meter scale calibration is a tapered log scale, which is very useful for monitoring the recording level. The two red segments indicate a 3dB range, which borders on the maximum level before distortion. The yellow segments show the signal level between -12 and -3 where the normal level peaks should register. The green segments show the levels below -12dB where the average signal levels should lie.





This App's audio processing is very linear with no signal compression. The table shows the playback output signal tracks the input exactly and conforms to the level displayed by the meters when making the recording.

Motiv						
scale	green	green	green	yellow	yellow	red
scale marking	-48	-18	-12	-6	-3	0
generator mV rms		6	17	35	50	70
calculated level in dB	na	-21.3	-12.3	-6.0	-2.9	0
PB level dB(analog)	na	-18	-12	-6	-3	0
reference acoustic level			94dB SPL			120dB SPL

The Audio Gain control is calibrated from 0% to 100%. We measured the actual gain/attenuation in dB with a reference of 0dB at the center or 50%. As you can see there is a wide range of adjustment. We recommend you stay within plus or minus 12dB to avoid distortion.

Motiv Mic Gain							
Scale	0%	20%	40%	50%	60%	80%	100%
Gain dB	-30	-20	-10	0	+10	+20	+30