



ProMovie Recorder + for iOS

Video App with Sound Recording – sample rate 44.1/48kHz, output file in PCM format.

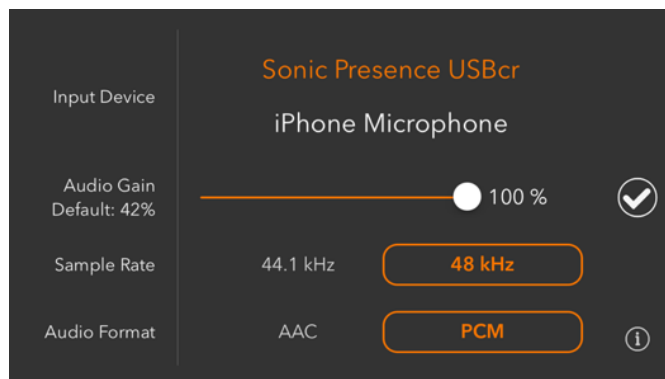
www.promovieapp.com

Here you see the Main Screen of the ProMovie Recorder + App. There are many controls for adjusting picture contrast, exposure resolution and so on. To understand these Video Control functions, refer to the App's manual. This manual focuses on the options for audio.

Look carefully at the very top of the screen and you'll see some white dashes. That's the audio level meter. It displays the signal level of the combined stereo audio channels. The meter is actually quite precise as you will see from our measurements.



There's a microphone icon on the left side of the screen. Tap the microphone icon and the Audio Controls menu appears.



You see the App recognizes the SonicPresence® USB Input Device provided you've followed our procedure. Below the microphone indication is an Audio Gain slider that adjusts the Mic Volume. It's calibrated from 0 to 100%, which is not exactly a pro audio standard, but is sufficient as a reference. Our testing showed the best



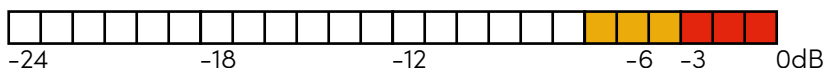
results when the slider was at 50%. You can select the sampling rate of 44.1kHz or 48kHz. The audio word sample size is fixed at 16-bit. You can select the audio file format. AAC is a compressed file format with a bit rate of 256kbps, while PCM is an uncompressed linear format. Click on the “checkmark” icon to return to the App’s main screen.

Meter Check and Level Testing

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 6dB to avoid distortion.

ProMovie								
Scale	10%	25%	38%	50%	62%	75%	88%	100%
Gain dB	-26	-18	-8	0	+6	+14	+22	+30

The audio level meter on the Main Screen of this App is quite accurate. Unfortunately, it does not have any calibration marks to guide you. We set the Audio Gain to 50%, which gave us these dB scale calibration marks. If you keep your peak audio levels in the yellow, you’ll get very good sound quality.



We also checked the meter level with a calibrated acoustic sound source. It showed -3.0dB at a Sound Pressure Level (SPL) of 120dB. That’s loud! We actually calibrate our SonicPresence® mics at this level, so the dynamic range of this App is a good match.

This table shows the relationship between our signal generator, the meter readings and the analog output level of the headphone jack. You can see the linearity is really quite excellent, which means that changes in the Output Level accurately follow changes in the Input Level.

ProMovie iOS						
scale	white	white	white	white	yellow	red
generator mV rms	5	10	20	40	80	160
calculated level in dB	-30.1	-24.1	-18.1	-12.0	-6.0	0
PB level dB(analog)	-32	-26	-20	-14	-8	-2
Comment						Clean