

# iPad Vibration Analyzer

Motionics' vibration analysis kit is an iPad-based vibration analyzer. It includes a low voltage piezoelectric accelerometer for accurate vibration measurement. Accelerometer signals are continuously acquired through the 2-Channel DAQ box mounted on the back of an iPad and passed to Motionics vibration apps through the iPad's lightning port.

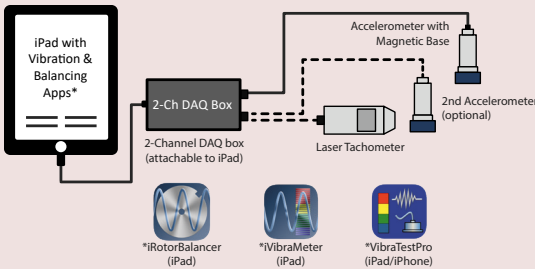
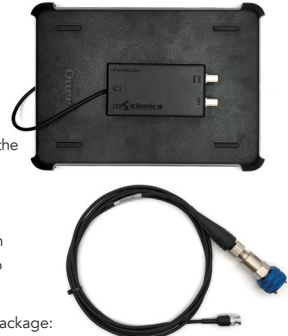
This vibration analysis kit includes the VibraTestPro App and iVibraMeter apps. VibraTestPro is the go-to app to measure vibration on iPhone and iPad. It provides comprehensive vibration analysis features, such as a real-time waveform & spectrum viewer, ISO10816 vibration meter, raw signal recording and so on. The user can also use the iVibraMeter app on iPad for quick overall vibration tests of multiple common machines such as pumps, motors, spindles, etc. with rapid PDF report generation capability. The kit is designed modularly, so it can be converted to a vibration/rotor balancing kit by adding a tachometer with the use of the iRotorBalancer app.

### App Features:

- Vibration meter with ISO10816 (customizable) severity indicator
- Interactive real-time waveform and spectrum viewer
- Customizable graph appearance: background color, line color, line thickness, grids
- Velocity and acceleration readings (metric & imperial)
- Auto Peak detection cursor, manual cursor, and top 5 peaks detector
- Distance cursor, harmonic cursor and sideband cursor
- Vibration raw signal (auto & manual) recording (adjustable sampling rate) with local data saving
- Vibration signal export in CSV and WAV formats
- Plant-Machine-Test point structure for easy data management
- PDF test report with plant map, images, signature & notes
- Quick and single tap vibration reading for pre-defined test points on common machines (motors, fans, pumps, spindles, etc.) with auto PDF report generation

### Included in the Package:

- iPad (optional and customizable)
- 2-Channel DAQ box with 2-Ch simultaneous measurement
- Industrial single channel accelerometer with magnet base
- 3ft coiled accelerometer cable (extends to 10ft)
- Custom iPad case for protection and to hold the DAQ box
- Protective Carrying Case
- iVibraMeter iPad App for overall vibration and certificate tests
- VibraTestPro iPhone/iPad App for vibration analysis
- Several other calculator apps as vibration reference tools



iPad Vibration Balancer	Specification
Sensitivity	25 mV/g
Measurement Range	±50 g
Frequency Range	30 - 900,000 cpm
Resonance Frequency	1860 kcpm
Number of Inputs	2 channels
Sampling Rate	44100 Hz
Operating Temperature	0-50 °C
Magnetic Base Pull Force	85 lbf
Accelerometer Cable	10 feet

