

Motionics iPad Rotor Balancing Kit turns an iPad into a rotor balancer to collect vibration amplitude & phase and conduct rotor balancing tasks.

The iPad with the iRotorBalancer app allows the user to apply Single-Plane, 2-Plane Inbound, 2-Plane Overhung methods to meet different rotor balancing requirements. Just with simple tapping and typing, everyone can be an expert in rotor balancing using this package.

This system is available in both wired and wireless version.

Features:

- Single-Plane balancing using 4-Runs/Vector methods
- 2-Plane inbound/overhung balancing
- Real-time waveform/spectrum (FFT) of vibration signal
- Polar plots of trial and correction weights
- Angular mass distribution calculator
- Permissible residual imbalance determination
- Weight Removal calculator
- One button calibration for accelerometer input
- Balancing report generation with email sharing and wireless printing

Included in the Package:

- iPad Air 2 16 GB LTE model (upgrade options available)
- Wired or wireless accelerometer with magnet base
- Digital tachometer with custom cable
- Custom iPad case with integrated DAQ box (Wired) or wireless data receiver (Wireless)
- iRotorBalancer app for iPad



Wired System



Wireless System

Key Specifications:

- Sensitivity: 100 mV/g
- Measurement Range: ± 20 g
- Frequency Range (± 3 dB): 96 – 600,000 cpm
- Resonance Frequency: 1500 kcpm
- Broadband Resolution: 1.5 mg
- Number of Inputs: 2 channels
- Sampling Rate: 44k samples/sec
- Analog to Digital Conversion: 24 bits
- Operating Temperature: 0 – 50 °C
- Power Supply: directly from iPad (Wired)
3V CR123 battery (Wireless)

- Magnet Base Pull Force: 85 lbf
- Wireless Spectrum: 2.4 GHz
- Wireless Data Range: Line of sight up to 100 m

