



# BalancePro

FIELD BALANCING APP

*Easily Balance Your  
One and Two-Plane Rotating Machinery*

The screenshot displays the 'Two-Plane Imbalance Correction' interface. At the top, it shows '0.80 grs ∠ 0°' and 'Shaft Rotation' with 'Clockwise' and 'Counter-Clockwise' options. Below this is a 'Correction Weights & Final Vibration' section with a rotor diagram and 'Split' and 'Remove' buttons. A modal dialog is open, containing the following fields:

- Rotor Weight (Lbs): 175
- Rotor Speed (RPM): 1780
- Number of Balancing Planes: 1 (selected) / 2
- Balancing Quality Grade: 0.4, 1, 2.5 (selected), 6.3, 16, 40, 100, 250, 630
- Permissible Residual Imbalance (oz-inch): 0.0000

The background interface also shows 'Residual Imbalance Plane B: 0.48 gr-in' and a circular vibration plot with '0 RPM' and '0.0000 ips ∠ 190°'. A bottom navigation bar includes Home, Clear, Edit, Stop, and Report icons.

## DESCRIPTION

BalancePro for Field Balancing is an iPad/iOS app designed for easily balancing one and two-plane rotating machinery. By connecting to the VIBEPRO acceleration measurement system and tach, the app utilizes vibration amplitude and phase signal to automatically calculate correction balancing weights and their angular position. Balance jobs may be stored and loaded for later use. The simple elegance of the app allows users of any experience level to achieve professional results.



## BALANCING OPTIONS

- Single Plane Inboard Balancing using vector method
- Single Plane Overhung Balancing using vector method
- Two-Plane Inboard Balancing using influence coefficient method
- Two-Plane Overhung Balancing
- Residual Imbalance Test
- Single Plane Balancing using 4-runs method

## FEATURES

- Manual data entry and direct data acquisition
- Real-time spectrum popover
- Real-time polar plot and auto amplitude adjust for all vectors
- Threshold auto area display in polar plot
- Remove material (drill) popover
- Data and settings are stored instantaneously
- Clockwise and counter-clockwise shaft rotation selector
- Metric and imperial Units
- Vibration amplitude in ips, mm/s and mils
- Report with company logo, asset photo (with markup ability), map, machine ID, company name, technician name, notes, spectrum, original and final balance data
- Full FFT spectrum up to 1,200,000 CPM (20,000 Hz) and resolution up to 0.33 Hz
- Vibration Spectrum (300 - 600,000 RPM)

## BENEFITS OF VIBEPRO'S WIRELESS SYSTEM

- **Safety:** Work safely away from moving parts.
- **Convenience:** No more tangled wires, worn out connectors and other hassles.
- **Universal Support:** Out of the box support for any USB device or computer that has vibration analysis, balancing or other related software. Both internal accelerometer and external input channel work across multiple devices with appropriate software.
- **Balancing:** VIBEPRO's wireless accelerometer was designed from conception to support wireless balancing through tachometer connection. Every unit we manufacture is capable of balancing, even if the balancing upgrade was not purchased initially



## SPECIFICATIONS:

- **Battery type:** 3V CR123. A very common battery type for cameras, high power flash lights, etc.
- **Physical size (without magnetic base):** Length 78mm, OD 36mm
- **External sensor input connector:** M8 male
- **External input sensor excitation voltage:** 3.3V
- **Power input voltage:** 5V through IP67 style mini USB-B connector
- **Case Ingress Protection:** IP65
- **Sampling rate:** 44,100 ksps or 48,000 ksps (host device dependent)
- **Temperature range:** On external power -40°C to 75°C, with battery 0°C to 50°C
- **Range:** Line of sight up to 100m
  - Crowded radio environments / through obstructions 15-25m
- **Mounting:** 1/4"-28 female thread
- **Base Material:** Hard Anodized Aluminum
- **Case Construction:** Composite
- **Button Material:** Stainless Steel
- **Button Indicator Color:** Blue
- **Button Ingress Protection:** IP67
- **No Latency**
- **Wireless Spectrum:** 2.4 GHz
- **Analog Digital Conversion Rate:** 24 bits



**Call: 603|203|6439**

35 Zachary Rd, Manchester, NH 03109, United States

**VibePro.com**

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

