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<https://www.avionteq.com/Aces-Viper-II-Balancer-Analyzer.aspx>



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VIPER II

4-Channel Analyzer

The VIPER II is a versatile yet compact instrument that combines all of the diverse technologies required for high-end engine vibration analysis, transient balance, rotor track and balance, fan trim balance, propeller balance and acoustic analysis into one tool. All of these maintenance functions can be easily performed on virtually any airframe and/or engine type using the VIPER II.

1

Transient Vibration Analysis

Accurate High-Speed Run-up and Coast-Down Transient Surveys

At approximately 6.0 pounds, powered by an internal battery and using minimal cabling, the VIPER II delivers vibration analysis at speed and accuracy levels typically available only in manufacturer test cells.

2

Track and Balance

Quick, Automated Track and Balance Solutions

The compact VIPER II provides accurate solutions in the minimum number of runs, saving costly run time and fuel. Setups are entered into the analyzer which can be customized by the user to accommodate virtually any engine and airframe type.

3

Transient Balance

Save Time and Money by Collecting Data in a Single Sweep

Transient Balance is a method of collecting vibration data at all engine speeds during a balance run eliminating the need to manually select and dwell at specific speeds.

• Features

- Transient Balance yields test cell quality balancing results
- Direct PDF report generation onto a USB flash drive
- E-Setups eliminate the need for charts
- SmartTach speed and phase processing allows direct measurement of the engine speed signal
- Four-channel simultaneous data acquisition (10 spectra/second/channel) for striking speed and accuracy
- Multiple speed inputs for multiple rotor speed tracking during transient analysis
- Multiple USB ports for direct connection to peripherals
- Industry-unique, no-cost, 5-year warranty for defects of components and workmanship included in the purchase price

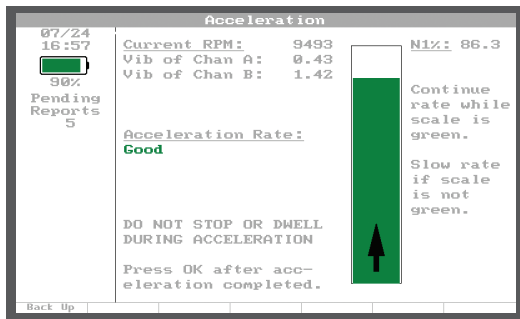




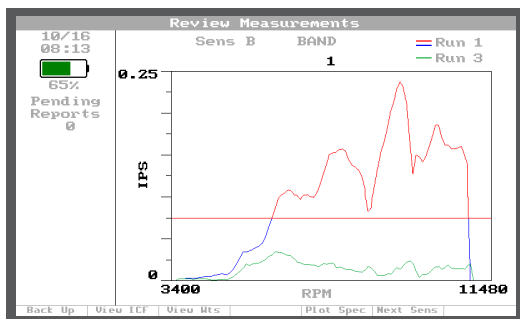
Viper II Specifications

APPLICATIONS

- Transient Balance
- Propeller Balance
- Rotor Track & Balance
- Fan Trim Balance
- Vibration & Acoustic Analysis



Visual display helps technicians maintain a smooth engine acceleration.



Vibration results are displayed for review.

*Screen shot simulated

- **Vibration Input:**
9.5V Pk-Pk, 0 to 240 IPS Peak with 20 mV per IPS sensor
- **Sensor Types:**
Accepts any vibration signal input (acceleration, velocity, displacement) and any voltage generating sensor. External charge amplifier required for charge mode.
- **Vibration Amplitude Accuracy:**
+/-1% across frequency range
- **Frequency Range:**
Selectable up to 30kHz (1,800,000 RPM)
- **Tachometer Inputs:**
Better than 1 degree phase accuracy 60 to 60,000 RPM
- **Display:**
7" Day/Night Readable Color LCD Display with Super-bright LED Backlight
- **Power:**
Rechargeable Lithium Ion Battery
- **Dimensions:**
10.5 inches wide, 9.75 inches long, 5 inches deep
- **Weight:**
Approximately 6.0 pounds (2.8 kilograms)