



COBRA II

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2-Channel Analyzer for Vibration Analysis & Balancing

The COBRA II is a versatile yet compact instrument that combines all of the diverse technologies required for high-end engine vibration analysis, rotor track and balance, and propeller balance into one tool.

1

Large Full-Color Screen

The COBRA II has a large high resolution, transmissive, full-color display with a super-bright LED backlight that can be easily viewed in direct sunlight.

2

PDF Reporting

Generate PDF reports directly from the analyzer and store on a USB flash drive to be printed or saved in a separate location to retain accurate maintenance records.



*Industry-Unique,
No-Cost, 5-Year
Warranty

• Portable Convenience

Data storage, transfer, display and analysis is independent of any proprietary software and a PC interface. Application Notes and eSetups are now available to download directly to the analyzer via the web.

• Solutions Generated

The compact COBRA II provides accurate solutions in the minimum number of runs, saving costly run time and fuel. Solutions are an extremely valuable tool that are not offered in similar vibration analysis and balancing instruments as a standard feature for this market.

• Features

All of these maintenance functions can be easily performed on virtually any airframe and/or engine type using the COBRA II.

- Propeller Balance
- Main Rotor Track and Balance
- Tail Rotor Balance
- Overall Vibration Survey
- Vibration Spectrum Survey

ACES[®]
S Y S T E M S



Cobra II Specifications

Track and Balance

Quick, Automated Track and Balance Solutions

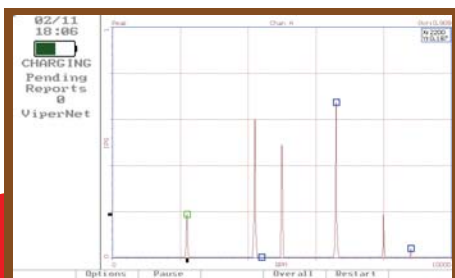
- Stores hundreds of setups for quick use on virtually any engine and airframe type.
- Solutions refined on each run- taking into account the unique properties of each airframe and automatically shortening the process saving costly run time and fuel.
- The COBRA II's ChartBuilder™ function allows new airframes to be added using industry standard polar charts.



Vibration Analysis

Test Cell Accuracy from a Handheld Device

- True two-channel simultaneous data acquisition
- Full spectral display on large color screen
- Normal and harmonic cursors easily identify vibration peaks



- **Vibration Input:**

9.5 V Pk-Pk, to 240 IPS Peak with 20mV 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 10,000 RPM

- **Display:**

7" Day/night readable color LCD display with super-bright LED backlight

- **Power:**

Rechargeable lithium ion battery

- **Weight:**

Approximately 6.0 pounds (2.8 kilograms)

- **Dimensions:**

10.5" wide, 9.75" long, 5" deep

- **Operating Temperature Range:**

-20° to +49° Celsius

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