

Zing® Test Elite

Honeywell



THE MOST CAPABLE PORTABLE AIRCRAFT
DIAGNOSTIC SYSTEM

Portable Diagnostic and Rotor Smoothing System



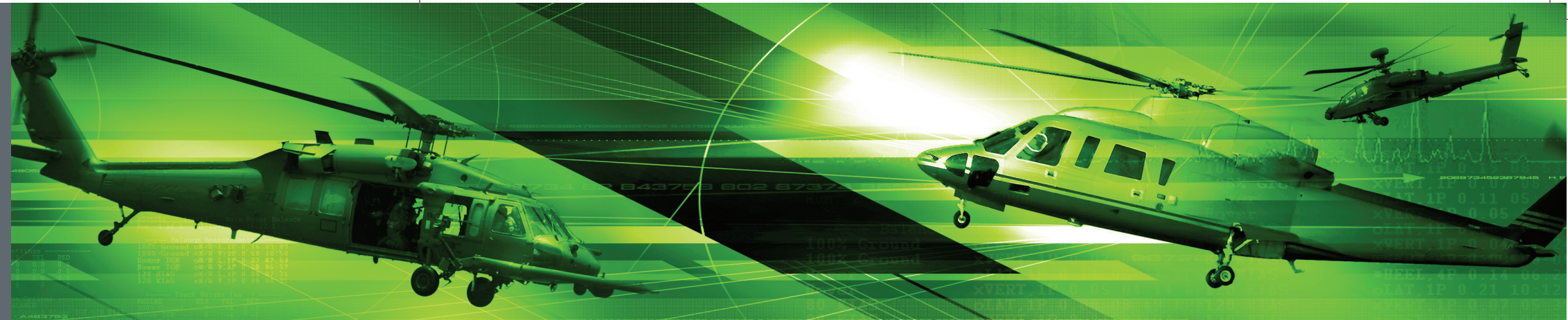
SAS VIBRATECH
 213 Avenue Louis CASTILLON
 83370 Saint Aygulf
 France
 Tel: +33 (0) 494 817 213
 Fax: +33 (0) 494 817 259
 Email: contact@vibratech.fr
www.vibratech.fr

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Zing® Test Elite

Portable Diagnostic and Rotor Smoothing System



The most capable and cost-effective diagnostic system for helicopters.

Zing® Test Elite

The Test Elite is part of an extensive and growing Zing® Total Condition-Based Maintenance solutions portfolio that includes Zing HUMS onboard Health and Usage Monitoring Systems (HUMS) hardware, Zing Test portable rotor track and balance (RT&B) and Vibration Analysis (VA) hardware, Zing Ware software and Zing Services remote diagnostics and service level agreements.

The Zing Test Elite is an easy-to-operate tool for performing helicopter rotor smoothing, engine performance checks, component balancing, vibration surveys, and complex vibration component analysis. The Test Elite can reduce measuring and verification flights, thereby increasing aircraft operational availability and readiness and enhancing safety.

- Most advanced and accurate measurement algorithms
- More accurate measurements with fewer flights
- Increases aircraft availability
- Easy to use and intuitive Windows®-based software

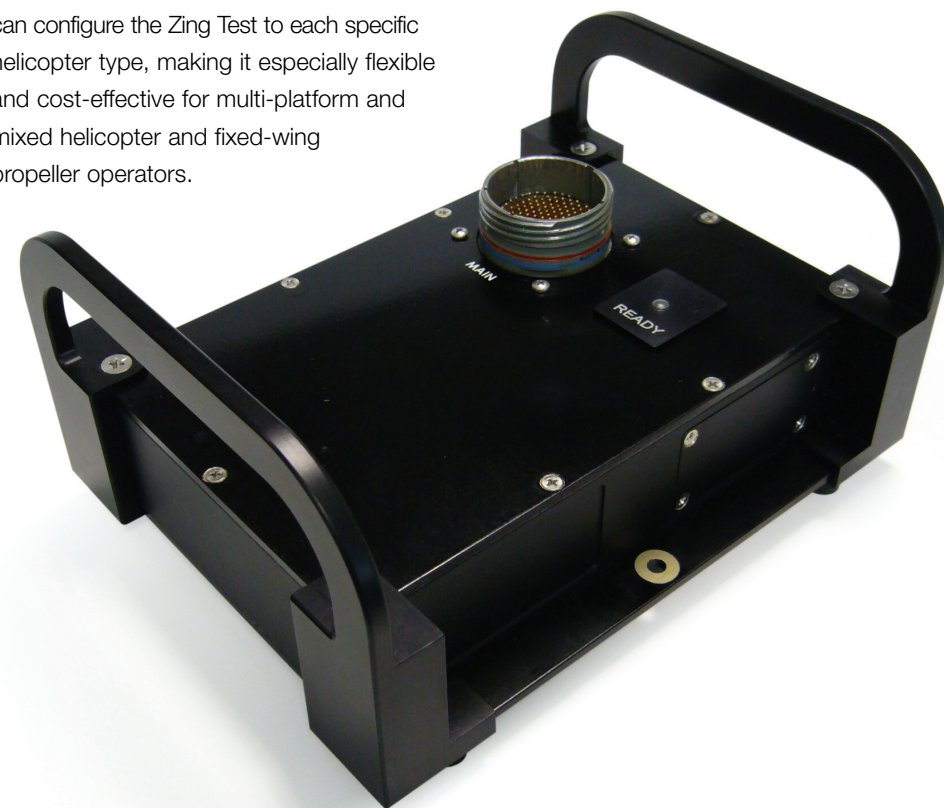
The Test Elite's very accurate airspeed and accelerometer algorithms set it apart from other smoothing solutions. Operators can now achieve maintenance manual specifications in as few as three flights – one or two measurement flights and one to verify.

The Test Elite's easy-to-understand maintenance actions can be displayed on any PC, including the optional Panasonic Toughbook®, using the Zing® Ware Personal Computer – Ground-Based System (PC-GBS) software. The Test Elite can configure the Zing Test to each specific helicopter type, making it especially flexible and cost-effective for multi-platform and mixed helicopter and fixed-wing propeller operators.

Available in Two Configurations

The Test Elite is offered in two configurations – the Basic Kit or Full Kit which includes all components from the Basic Kit plus the Panasonic Toughbook® computer and Intelligent Blade Tracker. An adapter kit is required to configure the Test Elite to a specific helicopter type.

Aircraft-specific adapter kits include sensor mounting brackets, cables and additional sensors as required.



All cables, brackets and sensors from the RADS-AT™/Aviation Vibration Analyzer (AVA) are fully compatible with the new Test Elite. The Zing Test utilizes the latest technology including FPGAs which allow reprogramming and reconfiguration, thereby reducing obsolesces issues.

Benefits for Operators

- Smoothes aircraft in accordance with existing maintenance manuals in as few flights as possible
- All data is collected at once and is processed as one unit resulting in a more accurate solution with fewer flights

- Saves time and money on measurement flights
- Enhances safety
- The Test Elite can be used on both helicopters and propeller-driven aircraft

Features

- Most advanced rotor smoothing technology on the market
- State-of-the-art signal processing and diagnostic algorithms
- Flexible design – configurable for use on most helicopters and propeller-driven aircraft

- Designed for the flight line – solid cast aluminum enclosure is moisture and shock resistant
- MIL-STD EMI shielded connectors compatible with RADS™/AVA
- Electronic Technical Manuals and Help Files
- Rugged transport case with rollers
- Light weight makes it easy to carry when traveling
- Fully qualified to both FAA and military requirements

Technical Specifications	
Dimensions	4.24" x 8.12" x 6.33" (10.8 cm x 20.6 cm x 16.1 cm)
Weight	DAU – 3.25 lbs (1.47 Kg)
Temperature Range	-40C to +71C
Input Power	10-40Vdc a/c power, MIL-STD-704D 50 ms Power Loss Hold-Up
Power Consumption	<18 W
Interconnection	Standard military-type connectors
Environmental Qualification	MIL-STD-810F & DO-160D
Built-in Self-Test	Integrated into PC-GBS software application
EMI/RFI Qualification	MIL-STD-810F, MIL-STD-461E, MIL-STD-704A/D, DO-160D
Wireless (802.11)	Optional
Internal Storage	256MB/8GB (stores over 500+ flights)
Compatibility	PC-compatible, RADS-AT/AVA
Digital Communication	2-RS232/422/485, 1-USB, 2-Ethernet
Software	DO-178B
Data Acquisition	2 or 3 wire accelerometers with programmable sensitivity Universal Tracking Device

Zing® Ware PC-Based Host Software Application

The PC-GBS Windows®-compatible software program receives measured data, stores the data in a database, and then analyzes the data and provides easy-to-understand corrective actions for the maintainers. The PC-GBS software can also act as a simple mechanism to collect and transfer data from the field to a centralized web server. This provides users with remote monitoring, trending, data analysis and automatic software upgrades.