

FREE  
SOFTWARE INCLUDED

# ULTRAPROBE® 9000

## Digital Ultrasonic Inspection System...

**The Ultimate Inspection Tool:**  
**All the advantages of Digital with the feel of Analog**

The Ultraprobe 9000 is a **Digital Ultrasonic Inspection, Information Storage and Retrieval System** that is so versatile, so easy (most operators are able to use the Ultraprobe 9000 within 15 minutes) and so much fun to operate, you'll be looking for opportunities to use it every day. From the very instant you hold the Ultraprobe 9000 Digital Ultrasonic Inspection System in your hand, the feel of the well balanced pistol grip, the elegance of simplicity and the clarity of signal will convince you that this is truly a remarkable feat of engineering. This Ultraprobe is ready to unleash the potential of any inspection program.



Scale is in calibrated decibels  
traceable to NIST

Your first glance at the easy to read display panel shows you something special. You can see the calibrated decibel readout and a 16 segment bar graph which instantly registers sound intensity changes and simultaneously registers peak hold as you scan.

With the **Ultraprobe 9000**, UE Systems engineering combines the best of both worlds: you can scan quickly as with the analog instruments and use digital information to store and trend.

Plus UE Systems' **Spin and Click Technology** makes all your adjustments fast and simple.



UE Systems' unique **Spin and Click™ Technology** makes sophisticated inspection processes so simple, so quick, you'll be amazed at how much you can accomplish with only two controls. By just "**spinning**" and "**clicking**" you can:

- Locate and identify potential problems
- Store data
- Change frequency quickly
- Change sensitivity quickly
- Download data via RS232 output
- Adjust basic operation modes
- Select "snap shot" function ... and more!



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## Features:

- Open Platform Software
- Interchangeable Modules
- Frequency Tuning
- Spin and Click™ Technology
- Ultratrend™ Sound Filtration
- 120 dB Dynamic Range
- Superior Application Support
- Acoustic Isolating Headphones
- Environmentally Friendly Rechargeable Batteries
- Easy Interface for most Vibration Analyzers including: SKF, ENTEK, DLI, CSI, DI
- Developed by The Industry Leader in Airborne Ultrasound

### Typical ULTRAPROBE Applications

#### Data Based Mechanical Inspection/Trending

- Bearing Condition
- Rubbing Conditions
- Cavitation
- Gears/Gear Boxes
- Pumps/Motors
- Lack of Lubrication

#### Data Based Leak Detection/Energy Audits

- Compressed Air
- Compressed Gases (O<sub>2</sub>, NO, etc.)
- Vacuum Leaks
- Seals & Gaskets
- Condenser Tubes
- Cockpit Windows
- Hatches
- Boilers
- Heat Exchangers
- Valves
- Steam Traps

#### Data Based Electrical Inspection

- Arcing
- Tracking
- Corona
- Switchgear
- Transformers
- Insulators
- Relays
- Bus Bars

### ULTRAPROBE 9000 Specifications

<b>Construction:</b>	Hand-held pistol type made with coated aluminum and ABS plastic
<b>Circuitry:</b>	Solid State Analog and SMD Digital Circuitry with temperature compensation
<b>Frequency Range:</b>	20 KHz to 100 KHz (tunable in 1 KHz increments)
<b>Response Time:</b>	< 10 ms
<b>Display:</b>	16 x 2 LCD with LED Backlight
<b>Memory:</b>	400 storage locations
<b>Battery:</b>	NIMH Rechargeable
<b>Operating Temperature:</b>	32°F to 122°F (0°C to 50°C)
<b>Output(s)</b>	Calibrated heterodyned output, decibel (dB), frequency, RS-232 data output
<b>Probes:</b>	Trisonic Scanning Module and Stethoscope Module
<b>Headset:</b>	Deluxe noise attenuating headphones
<b>Indicators:</b>	dB, Frequency, Battery Status, and 16 Segment Bar Graph
<b>Sensitivity:</b>	Detects .005" (.127 mm) diameter leak @ 5psi (.34 bar) at a distance of 50 ft. (15.24 m)
<b>Threshold:</b>	1 x 10 <sup>-2</sup> std. cc/sec to 1 x 10 <sup>-3</sup> std. cc/sec.
<b>Dimensions:</b>	Complete kit in zero haliburton aluminum carrying case 15" x 22" x 7" (38.1 x 55.9 x 17.8 cm)
<b>Weight:</b>	Pistol Unit: 2 lbs. (.9 kg) Complete carrying case: 14 lbs. (6.4 kg)
<b>Warranty:</b>	1 year parts/labor standard, 5 years with returned completed warranty registration.
<b>Display Modes:</b>	Real Time and Snap Shot
<b>dB Measurement Modes:</b>	Relative or Offset

Covered by one or more of the following patents: 4416145, EP0151115, 502674183

UE Systems is committed to continual product improvement therefore specifications are subject to change without notice. Warranty details are available by request. The Ultraprobe 9000 and Ultratrend Software is Y2K compliant.



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