

**SON OF
A GUN!**

ULTRAPROBE® 100

Ultrasonic Inspection System...

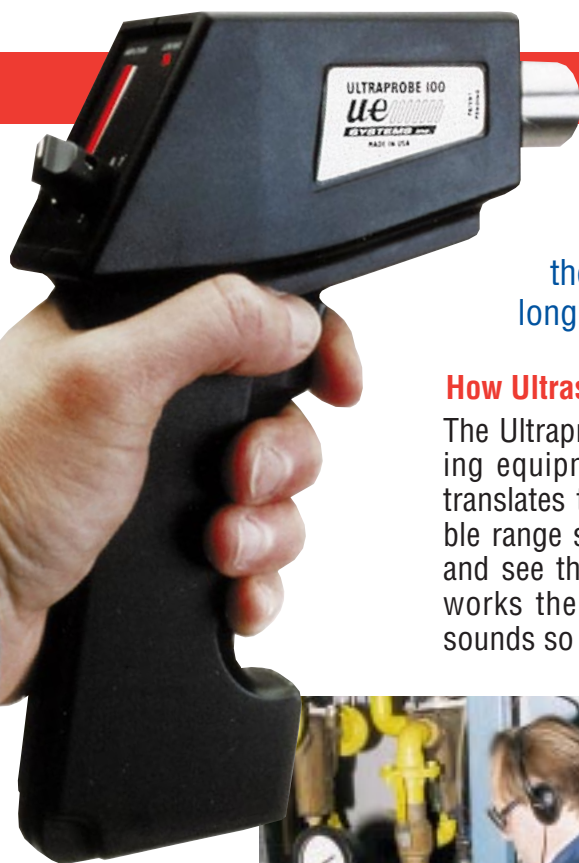
Know where Your Money is Going

Compressed Air Leaks Cost,

Steam Leaks Cost,

Machinery Failure Costs...

Ultraprobe 100 Saves !!!



Sensing ultrasonic emissions produced by operating equipment, electric discharges and leaks, the amazing **Ultraprobe 100** finds potential problems long before they become major headaches.

How Ultrasonic Technology Works for You

The Ultraprobe senses high frequency sounds produced by operating equipment, leaks and electrical discharges. It electronically translates these signals by heterodyning them down into the audible range so that a user can hear these sounds through a headset and see them as intensity increments on the meter. Heterodyning works the same as a radio in that it accurately transforms the sounds so that they are easily recognized and understood.

The advantage of Ultrasound technology is simple to understand. Ultrasound is a high frequency, short wave signal. When compared with the sounds we humans can hear, the size of the sound waves are extremely small. This property provides advantages:

- **Ultrasound is very directional**
- **Ultrasound can be easily blocked or shielded**
- **Ultrasound instruments can be used in noisy environments**
- **Ultrasound changes provide early warning of potential problems**
- **Ultrasound instruments are easy to use**



ULTRAPROBE® 100

Available Kits & Ordering Information

It's easy to find the right Ultraprobe 100 for your application

UE Systems ULTRAPROBE 100 Series Application Selection Chart



UP100KT Ultraprobe 100 Kit (Comprehensive)

Includes: UP100 pistol with LED bar graph meter, 8 position sensitivity selection, low battery indicator, scanning module, rubber focusing probe, stethoscope module, warble tone generator (WTG-1) with battery charger, lightweight "walkman" style headset, 9 volt alkaline battery (replaceable), nylon Cordura soft carrying case and comprehensive instruction manual.

UP100SC Ultraprobe 100 Stethoscope/Scanner Kit

Includes: all of the UP100KT but does *not* include a Warble Tone Generator

UP100STG Ultraprobe 100 Scanner / Tone Generator Kit

Includes: UP100 pistol with LED bar graph meter, 8 position sensitivity selection, low battery indicator, scanning module, rubber focusing probe, warble tone generator (WTG-1) with battery charger, lightweight "walkman" style headset, 9 volt alkaline battery (replaceable), nylon Cordura soft carrying case and comprehensive instruction manual.

UP100S Ultraprobe 100 Scanner Kit

Includes: all as described in the UP100STG but does *not* include a Warble Tone Generator.

UP100C Ultraprobe 100 Stethoscope Kit

Includes: UP100 pistol housing with LED bar graph meter, 8 position sensitivity selection, low battery indicator, stethoscope module, lightweight "walkman" style headset, 9 volt alkaline battery (replaceable), nylon Cordura soft carrying case and comprehensive instruction manual.

Application	Kit #	UP100KT	UP100SC	UP100STG	UP100S	UP100C
Pressure & Vacuum Leak Detection		✓	✓	✓	✓	
Valve Seat Leak Detection		✓	✓			✓
Exhaust System Leaks		✓	✓	✓	✓	
Heat Exchangers, Boilers, Condensers		✓	✓	✓	✓	
Steam Trap Inspection		✓	✓			
Bearing Testing		✓	✓			✓
Gear/Gear Box Inspection		✓	✓			✓
Wind Noise/Water Leaks		✓		✓		
General Mechanical Inspection & Trouble Shooting		✓	✓			✓
Tanks, Pipes, Leak Testing, etc.		✓	✓	✓	✓	
Electrical Inspection		✓	✓	✓	✓	

AVAILABLE ACCESSORIES (Call, Fax or Email for information)

- Holster Set
- Liquid Leak Amplifier (ultrasonic bubble test for low level leaks)
- Stethoscope Extension Kit
- Speaker Amplifier
- Specialized Tone Generators (Used instead of pressure test, transmits ultrasound through a leak... Fast & Easy)
- Video Training Tapes
- DHC-2H Deluxe Noise Isolating Headset
- LRM-1 Long Range Module

ULTRAPROBE 100 Specifications

Construction:	Hand-held ABS pistol type ultrasonic processor, stainless steel sensor enclosures
Circuitry:	SMD / Solid State hybrid heterodyne receiver
Frequency Response:	Peak response: 36 - 44 KHz
Indicator:	10 segment LED Bar Graph (red)
Sensitivity Selection:	8 position precision attenuation
Power:	9 Volt Alkaline Battery
Low Battery Voltage Indicator:	LED
Headset:	Weight: 2.5 oz. Operating Temperature Range: -22 to 167°F (-30° to +75°C) Cable: 48" shielded. Cable Pull: 20 lbs. Frequency Range: 300 to 3000 Hz. Impedance: 150Ω. Molded connector.
Probes:	Scanning Module (SCM-1) Stainless Steel Unisonic (single transducer) piezo electric crystal type; Stethoscope/Contact Module (STM-1) Stainless Steel plug-in type with 5.5" Stainless Steel Waveguide.
Rubber Focusing Probe:	Shields stray ultrasonic signals & focuses detected signals.
Transmitter:	Patented warble tone transmission
Response Time:	300 msec.
Ambient Operating Temperature Range:	32° - 120°F (0°-50°C)
Relative Humidity:	10-95% non-condensing at up to 86°F (30°C)
Storage Temperature:	0° - 130°F (18° - 54°C)
Warranty:	1 year parts/labor standard. (Details available on request) 5 years upon completed registration form
Dimensions:	5.25" x 2" x 8" (13.3 x 5 x 20.3 cm)
Weight:	11 oz (.3 kg)
Carrying Case:	Nylon Cordura soft carrying case

Covered by one or more of the following patents: 4416145, EP0151115, 502674183 additional patents pending.
UE Systems is committed to continual product improvement therefore specifications are subject to change without notice. Warranty details are available by request.



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