

Analog Ultrasonic inspection system



Allow Ultrasonic Technology to Work For You

The Ultraprobe® 100 is the perfect fit for someone looking for cost-effective analog ultrasonic inspection technology. The Ultraprobe senses high frequency sounds produced by operating equipment, leaks and electrical discharges.

It then 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 Ultraprobe “gun’s” LED meter. Heterodyning works the same as a radio in that it accurately converts the high frequency sounds down into the audible range so that they are easily recognized and understood.

The advantage of the Ultraprobe® 100 is that it is light, portable and easy to use. Plus it is an ultrasound sensing instrument. Ultrasound produces 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 technology coming through the Ultraprobe® 100 provides the following advantages:

- Ultrasound is very directional
- Ultrasound can be easily blocked or shielded
- The Ultraprobe® 100 can be used in noisy environments
- The Ultraprobe® 100 can detect equipment changes and provide warning of potential problems
- The Ultraprobe® 100 is VERY easy to use

Complete Kit

Ultraprobe® 100 Ultrasonic Detection Kit

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

AVAILABLE KITS AND ORDERING INFORMATION

- UP100KT: ULTRAPROBE 100 KIT

UP100 pistol housing with LED bar graph meter, 8 position sensitivity selection, low battery indicator, scanning module, rubber focusing probe, stethoscope module, warble tone generator with battery recharger, lightweight foam lined headset, 9 volt alkaline battery (replaceable), cordura/nylon soft pack and comprehensive instruction manual.

- UP100SC: ULTRAPROBE 100 STETHOSCOPE / SCANNER KIT

UP100 pistol housing with LED bar graph meter, 8 position sensitivity selection, low battery indicator, scanning module, rubber focusing probe, stethoscope module, lightweight foam lined headset, 9 volt alkaline battery (replaceable), cordura/nylon soft pack and comprehensive instruction manual.

- UP100STG: ULTRAPROBE 100 SCANNER / TONE GENERATOR KIT

UP100 pistol housing with LED bar graph meter, 8 position sensitivity selection, low battery indicator, scanning module, rubber focusing probe, warble tone generator with battery recharger, lightweight foam lined headset, 9 volt alkaline battery (replaceable), cordura/nylon soft pack and comprehensive instruction manual.

- UP100C: ULTRAPROBE 100 STETHOSCOPE KIT

UP100 pistol housing with LED bar graph meter, 8 position sensitivity selection, low battery indicator, stethoscope module, lightweight foam lined headset, 9 volt alkaline battery (replaceable), cordura/nylon soft pack and comprehensive instruction manual.

- UP100S: ULTRAPROBE 100 SCANNER KIT

UP100 pistol housing with LED bar graph meter, 8 position sensitivity selection, low battery indicator, scanning module, rubber focusing probe, lightweight foam lined headset, 9 volt alkaline battery (replaceable), cordura/nylon soft pack and comprehensive instruction manual.



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Technical Specifications

- Construction: Handheld ABS pistol type ultrasonic processor, stainless steel sensor enclosures
- Circuitry: SMD/Solid State hybrid heterodyne receiver
- Frequency Range: 35-45 kHz
- Indicator: 10 segment LED bargraph (red)
- Sensitivity Selection: 8 position precision attenuation
- Power: 9 Volt Alkaline Battery
- Low Battery Voltage Indicator: LED
- Headset: Noise isolating type: double headset wired mono/homonic impedance; 16 ohms. Over 23 dB noise attenuation. Meets or exceeds ANSI specification and OSHA standards.
- 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 m. sec.
- 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: One year, parts/labor. (Details available on request)
- Dimensions: 5.25" x 2" x 8" (13.3cm x 5cm x 20.3cm)
Weight: 11 oz (.3kg)
- Carrying Case: Nylon soft carry case with die cut foam

*In an effort to provide the highest quality, specifications are subject to change without notice.

Accessories



LRM-1: LONG RANGE MODULE

Scan for leaks at a distance. Brings distant leaks close-up. This specially designed rubber module fits over the standard scanning module.

TFSM-1: TELESCOPING & FLEXIBLE SCANNING MODULE with RAM (Remote Access Module)

Extend and Bend this probe to odd angles to locate sound sources in hard to reach areas. (up to 56 in / 1.4 m).



HTS-1: HOLSTER SET

One for the Ultraprobe pistol, module and headphones, the other for accessories. Keeps hands free for walking routes and climbing up and down ladders.

HC -2HH: DELUXE HEADSET FOR USE WITH HARDHATS

For use in high noise environments. Acts as hearing protection device. Convenient for use with hard hats. Velcro loop head band adjusts for all sizes: same specs as for standard headphones.



UFMTG 1991: MULTI-DIRECTIONAL TONE GENERATOR

This extremely powerful ultrasonic transmitter contains a multiple array of four transducers that produce UE SYSTEMS patented warble tone to cover a circular pattern of 360°.

WTG-2SP: WARBLE PIPE TONE GENERATOR

For leak detection without pressure or vacuum. Heat exchangers, tanks with small penings or pipe sections can be quickly flooded with ultrasound for leak testing.

