

ULTRAPROBE® 550

Ultrasonic Inspection System...

**Versatile Ultrasonic Diagnostics for
Leak Detection and Mechanical Inspection**

Accurate – Cost Effective



Extremely versatile,
the **Ultraprobe 550** is loaded with a selection of high tech accessories that will help meet the challenge of practically any problem an inspection team will face.

How the Ultraprobe Works:

The Ultraprobe 550 senses a narrow range of ultrasonic “high frequency” signals and electronically translates them into the audible range that users can hear and easily recognize. Ultrasound is a short wave signal which provides many benefits. Being directional, the sound intensity does not travel far from the source making detection of problem sounds very fast and very accurate. Since the instrument senses only high frequency sounds, it ignores most troublesome background noises.

Designed for ease of use, it often takes no more than 15 minutes to become competent in testing with the **ULTRAPROBE 550**.

The **ULTRAPROBE 550** heterodynes ultrasound to the audible range providing accurate sound reproduction.

Ultraprobe's versatility makes it ideally suited to work with any plant program:

- **Predictive Maintenance (PDM)**
- **Energy Conservation**
- **Safety**
- **Quality Assurance (QA/QC)**
- **Total Productive Maintenance (TPM)**
- **Process Safety Management (PSM)**

Ultraprobe provides data acquisition through three modes:

- **Auditory Channels**
(via an acoustically isolating headset)
- **Analog Meter**
- **Demodulated Signal**
for vibration data collectors and FFT's

ULTRAPROBE® 550

**Ultraprobe Versatility Extends to Ordering
with Customized Kits Available on Request**

UE Systems ULTRAPROBE 550 Series Application Selection Chart

| Application | Kit # | UP550KT | UP550SC | UP550STG | UP550C | UP550S |
|--------------------------------------|-------|---------|---------|----------|--------|--------|
| Pressure & Vacuum Leak Detection | | ✓ | ✓ | ✓ | | ✓ |
| Hydraulic Valve Bypass | | ✓ | ✓ | | ✓ | |
| Exhaust System Leaks | | ✓ | ✓ | ✓ | | ✓ |
| Heat Exchangers, Boilers, Condensers | | ✓ | ✓ | ✓ | | ✓ |
| Valve & Steam Trap Inspection | | ✓ | ✓ | | ✓ | |
| Bearing Testing | | ✓ | ✓ | | ✓ | |
| Gear/Gear Box Inspection | | ✓ | ✓ | | ✓ | |
| Cockpit Window Leaks / Hatches | | ✓ | | ✓ | | |
| General Mechanical Inspection | | ✓ | ✓ | | ✓ | |
| Tanks, Pipes, Leak Testing, etc. | | ✓ | ✓ | ✓ | | ✓ |
| Electrical Inspection | | ✓ | ✓ | ✓ | | ✓ |



UP550KT Kit

ULTRAPROBE housing with Metered Pistol Grip, Ballistic Meter, Ten Turn Potentiometer, Numerically Calibrated Sensitivity Dial with Selection Lock, Battery, Battery Indicator Light, Battery Recharger Receptacle and Head Set Receptacle.

- Trisonic™ Scanning Module
- Rubber Focusing Probe
- Stethoscope (contact) Probe
- Deluxe Headphones
- Extension Probe Kit
- Warble Tone Generator
- Battery Recharger (110V or 220V)
- Nylon Cordura Soft Carrying Case

Other Kits & Models Available, Consult With Factory.



SUPPORTED BY ACCESSORIES (Call, Fax or Email for information)

- Holster Set
- Magnetic Mount Probe
- Liquid Leak Amplifier
- Ultrasonic Wave Form Concentrator (Dish)
- Wide Selection of Ultrasonic Tone Generators
- Hard Hat Headphones
- Extension Cable
- Video Training Tapes

ULTRAPROBE 550 Specifications

| | |
|----------------------------|--|
| Construction: | Metered pistol housing; anodized aluminum and ABS plastic |
| Circuitry: | Solid state heterodyne receiver with temperature compensation |
| Frequency Response: | Peak response: 36-44 kHz (optimized for airborne leaks) |
| Probes: | Scanning Module: patented TRISONIC plug-in type consisting of phased array of multiple transducers for airborne ultrasound. RF shielded. |
| Headset: | Noise isolating type: double headset wired monophonic. Impedance, 16 ohms. Over 23 dB of noise attenuation. Meets or exceeds ANSI specifications & OSHA standards. |
| Indicators: | Ballistic output meter. Low Level Battery LED for main housing internal battery supply. |
| Battery: | Self contained nickel metal hydride (environmentally safe) rechargeable. |
| Pistol Unit Weight: | 2 lbs. (.9kg) |
| Carrying Case: | ABS plastic |
| Sensitivity: | Detects .005" (.127mm) dia. leak @ 5 psi (.34 bar) at a distance of 50 ft. (15.24m). |
| Threshold*: | 1 x 10 ⁻² std. cc/sec to 1 x 10 ⁻³ std. cc/sec. freon |
| Warranty: | 1 year parts/labor standard. (Details available on request) 5 years upon completed registration form |

* depends on configuration

Ultraprobe 550: Meets and exceeds ASTM E1002-93 requirements for Leak Detection.

Covered by one or more of the following patents: 4416145, EPO151115, 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.



14 Hayes Street, Elmsford, NY 10523-2536 USA
Tel: 914-592-1220 • Fax: 914-347-2181 • Toll Free: 1-800-223-1325
Email: ue@uesystems.com • Internet: <http://www.uesystems.com>