

## Digital Ultrasonic inspection system



### The FUTURE of Ultrasonic Inspection Technology

Experience the Ultraprobe® 15,000 Touch – Years Ahead of Its Time. Miles Ahead of the Competition.

Get in touch with your plant Click here to view the Ultraprobe 15,000 Video

What would the future be like if equipment was tested so effectively, so safely, so intuitively that catastrophic failure and energy waste became terms of the past?

For the past three decades, the manufacturers at UE Systems have been working on a super detection system that combines state-of-the-art technology with each and every known plant inspection requirement (as indicated by our clients) – in order to create an entire ultrasonic condition monitoring laboratory – to fit in the palm of your hand.

- Touch Screen Technology
- Plan/Review Routes, Images and Sounds On-board
- Multiple Data Screens: dB/Temperature/ Spectral Analysis
- Take Temperature with Infrared Thermometer
- Adjust Emissivity
- Analyze Conditions with On-board Spectral Analyzer
- Photograph Test Points with On-board Camera
- Pinpoint Locations with Laser Pointer
- Review Alarm Groups & Generate Reports
- Store Data, Sounds, and Images
- Review Historical Record Data
- Use for ALL Plant Applications



### Ultraprobe® 15,000 Touch Hardware

Place all of Your Inspection Needs in the Palm of Your Hand!

If you have not yet experienced UE Systems' pistol-grip digital ultrasonic detection instruments, you haven't experienced truly turnkey route inspection. Anything is possible with the Ultraprobe® 15,000 Touch inspection instrument. Its ergonomically enhanced hardware makes this Ultraprobe easy to control, simple to use, and extremely accurate. Powered by the most advanced software package ever developed for portable PdM/Energy and leak inspection this remarkable system includes all your analytical tools for data, images, temperature and Spectral sound analysis. It is truly an "ultrasound inspection laboratory" that fits in the palm of your hand.

Hardware features include:

#### FRONT VIEW

- Infrared Thermometer
- Laser Pointer
- Camera with Flash

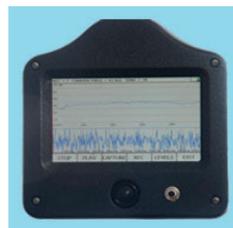


#### SIDE VIEW

- Instrument Trigger
- Battery Pack
- On/Off Button
- Test Module Receptacle



#### BACK VIEW



## Digital Ultrasonic inspection system

### Technical Specifications

- Construction: Hand-held pistol type made with coated aluminum and ABS plastic
- Circuitry: Solid State Analog and SMD Digital Circuitry with temperature compensation and true RMS conversion
- Frequency Range: 20 kHz to 100 kHz (tunable in 1 kHz increments)
- Display: QVGA Touch Screen – IR, Laser Pointer, Camera, Spectrum Analyzer
- Sound Recording: WAV File Format
- IR Temperature: -20°C to 500°C ( -4°F to 932°F )
- Camera: 2.0 Mega Pixel
- Laser Pointer: All but Europe:
- Memory: 400 storage locations
- Battery: Lithium ION Rechargeable
- Operating Temperature: 32° F to 122° F (0° C to 50° C)
- Output(s): Calibrated heterodyned output, decibel (dB) frequency, SD card
- Probes: Trisonic Scanning Module, Stethoscope Module, Long Range Module and RAS-MT
- Headset: Deluxe noise attenuating headphones for hard hat use
- Indicators: dB, Frequency, Battery Status, and 16 Segment Bar Graph
- Sensitivity: Detects .005" (.127 mm) diameter leak @ 5 psi (.34 bar) at a distance of 50 feet (15.24m)
- Threshold\*: 1 x 10<sup>-2</sup> std. cc/sec to 1 x 10<sup>-3</sup> std. cc/sec
- Dimensions: Complete kit in Zero Halliburton aluminum carrying case 21.5" x 18.5" x 8" (55 x 47 x 20 cm)
- Weight: Pistol Unit: 2.35 lbs. (1.1 kg)  
Complete carrying case: 19 lbs. (8.6 kg)
- Warranty: 1 year parts/labor standard, 5 years with returned completed warranty registration card
- Display Modes: dB (main), IR, ABCD, Spectrum and Application Specific,
- Spectrum Analyzer (modes): Spectrum, Time Series & Dual Specific

\*depends on leak configuration

Ultraprobe® 15,000 Kit: Meets and exceeds ASTM E1002-2005 requirements for Leak Detection.

Covered by one or more of the following patents: 051115, 0303776, 0315199, 1206586, 1297576, 1881263, 2562758, 2689339, 4416145, 4823600, 5955670, 6122966, 6339961, 6341518, 6415645, 6655214, 6707762, 6804992.

UE Systems is committed to continual product improvement therefore specifications are subject to change without notice. Warranty details are available by request.

Contact us for detailed overview of the Ultraprobe® 15,000 Touch

### Ultraprobe® 15,000 Touch Complete Detection Kit

The Ultraprobe 15,000 Kit comes loaded with all the accessories you'll need for effective condition monitoring.

The kit includes:

- The Ultraprobe housing with camera
- IR thermometer
- Laser pointer
- On-board Spectral Analyzer
- Sound recording
- On-board data logging
- Touch Screen technology
- Specialized displays
- SD Card and Compact Flash Card Reader

Plus:

- The patented UE Trisonic Scanning Module
- A Stethoscope (Contact) Module
- Stethoscope Extension Rods
- Hard hat style acoustic isolating headphones
- A Long Range Module
- A RAS-MT Remote Access Sensor with Magnetic Mount Transducer
- A spare Lithium Ion Rechargeable battery
- Recharging Pod
- Ultratrend DMS Data Management Software
- UE Spectralyzer Spectral Analysis Software
- Battery recharger
- Instructions
- A Zero-Halliburton Carrying Case



[www.delta3n.hu](http://www.delta3n.hu)



+36-75-510-115



[info@delta3n.hu](mailto:info@delta3n.hu)



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## Digital Ultrasonic inspection system

### Touch Screens

Truly an ultrasonic condition monitoring laboratory that fits in the palm of your hand, the Ultraprobe® 15,000 Touch is so sophisticated and so advanced, it's easy to use. The center piece of the Ultraprobe 15,000 is touch screen technology. A true "full-service inspection system", you will be amazed at how many different ways you can use it, as well as how many different applications it can be used for. Touch an icon and the world of ultrasonic inspection opens for you.

#### Main Screen:

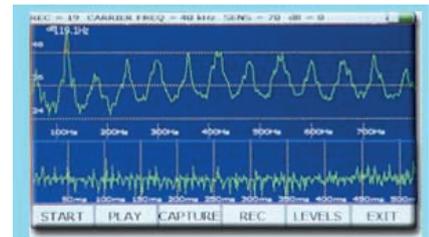
- Decibels
- Frequency
- Record Number
- Sensitivity Levels
- Application

Touch the display to change sensitivity, frequency or view an Icon.



#### Spectral Analysis Display

- Three views including: FFT • Time Series • FFT & Time Series
- View/analyze sound samples on board as FFT, save sound, and even the image of the sound
- Adjust the sample rate
- All records are stored automatically on the SD card (after test is complete, you can conveniently remove the card from the instrument and load it into UE Systems data management software: Ultratrend DMS)



#### Camera Display

- Take a photograph
- Zoom feature to capture a test point close up
- Built in flash, which you can turn on or off
- Store image data
- Test Data imbedded into image for report enhancement

For a complete multi-media overview of the Ultraprobe® 15,000 Touch in action using all touch screens, please watch our informative flash video.



#### TOUCH SCREENS:

	Spectral Analysis		Input Additional Test Data
	Historical Records		View Uploaded Route
	Temperature & dB		Store Test Data
	Camera		Temperature Display (no dB)
	View Image and Take Photo		Valve/Steam Trap Test Display
	dB Display		Emissivity Adjustments
	Setup for Instrument Functions		



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### Accessories:

#### DHC-2BT: BLUETOOTH HEADPHONES

Deluxe noise attenuating headphones – for hard hat use



#### UE-RAM

Adaptor Enabling Ultraprobe 15,000 To Read RAS Sensor.



#### UE-RAS

Permanent Mounted Sensor With 25' Cable Readable by the Ultraprobe 15,000 (requires RAM).



#### UP-201: ULTRASONIC GREASE CADDY

Prevents over lubrication. Provides visual and audible indication for proper lubrication.

#### TFSM-15: TELESCOPING & FLEXIBLE SCANNING MODULE

Extend and Bend this probe to odd angles to locate sound sources in hard to reach areas.  
(up to 84 in / 2.1 m)



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### Accessories:

#### FSM-15: FLEXIBLE SCANNING MODULE

Bend this probe to odd angles to locate sound sources in hard to reach areas.



#### UWC-15: ULTRASONIC WAVE FORM CONCENTRATOR (PARABOLIC DISH)

The UWC doubles the detection range of standard scanning modules and pinpoints ultrasonic leaks & electric emissions at great distances.

#### HTS-15: 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



#### CFM-15: CLOSE FOCUS MODULE

A specialized module to help locate LOW LEVEL pressure and vacuum leaks.

#### EXC-15: MODULE INTERCONNECTION CABLE

Shielded cable, works with either module for hard to reach areas. Standard length: 8' (2.4M). Lengths up to 50 ft. are available.

