ULTRAPROBE® 15,000

Get in touch with the future of ultrasonic condition monitoring

Get in touch with your plant

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?

Using knowledge based on three decades of experience, the engineers at UE Systems have developed an entire ultrasonic condition monitoring laboratory – to fit in the palm of your hand.

The future has arrived: Experience the Ultraprobe® 15,000 Touch

- Touch Screen Technology
- Analyze Conditions with On-Board Spectral Analyzer
- Plan/Review Routes On-Board
- Take Temperature with an Infrared Thermometer
- Photograph Test Points with On-Board Camera
- Multiple Data Screens: dBI Temperature/ Spectral Analysis
- Review Alarm Groups & Generate Reports
- Store Data, Sounds, and Images
- Review Historical Record Data
- Pinpoint Locations with Laser Pointer
- Adjust emissitivty

All via touch screen technology with easily recognizable icons

The minute you hold this remarkable digital inspection system in your hand, you will realize you are in for something truly special. Take a tour of each touch screen feature and find out why the Ultraprobe® 15,000 Touch is the most electrifying inspection device available.

UE SYSTEMS INC

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 truly experienced turnkey route inspection. UE Systems ergonomically enhanced hardware will get you through your routes more quickly and effectively. Anything is possible with the Ultraprobe® 15,000 Touch inspection instrument. It's light, easy to control, simple to use,and extremely accurate. Plus, all your analytical tools from data, images, temperature and sound analysis neatly fit in the compact housing.
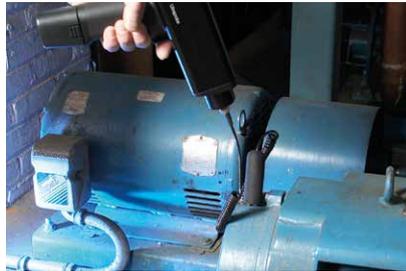
Hardware features include:

1 Instrument trigger
2 Battery pack
3 SD Card slot
4 On/Off button
5 Headphone jack
6 Infrared thermometer
7 Laser pointer
8 Camera with flash

Front view

Back view

Side view

Touch screen technology
The following icons are available on the display

|		
Spectral Analysis	dB Display	Temperature Display (w/out dB)
Historical Records	Input Additional Test Data	Valves Test Display
Temperature & dB	Setup for Instrument Functions	Emissivity Adjustments
Camera	View Uploaded Route	
View Image and Take Photo	Store Test Data	

The Future of Ultrasonic Inspection is One Touch Away

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 simple.The centerpiece of the Ultraprobe® 15,000 Touch is its 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.

Some touch screen examples include:
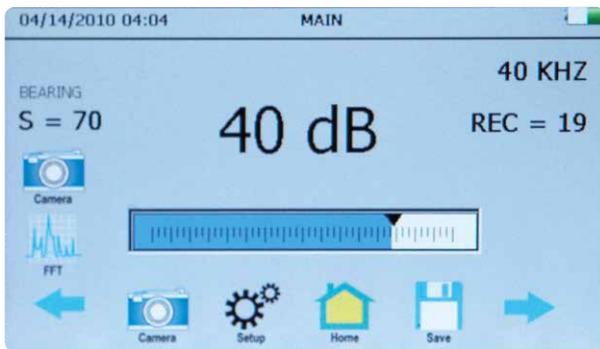
Main Screen
Select two icons to be displayed at all times
Main Screen View:
• Decibels
• Frequency
• Record Number
• Sensitivity Levels
• Application
Touch the display to change sensitivity, frequency, or view an icon
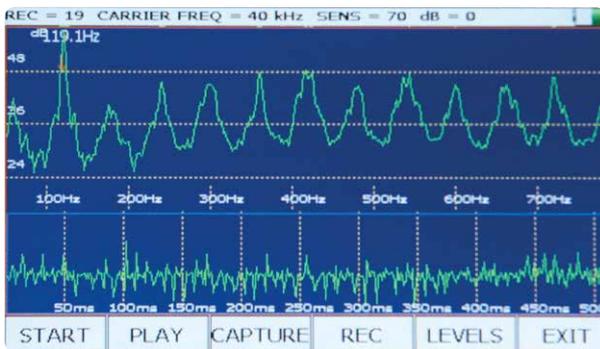
Spectral Analysis Display
Three views including:
• FFT & Time Series
• FFT
• Time Series

View/analyze sound samples on board, 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)

Temperature & dB
• View dB
• View intensity fluctuations on an indicator bar
• View temperature (C or F)
• Adjust emissivity for temperature accuracy
• Record data
• Download data and temperature to computer
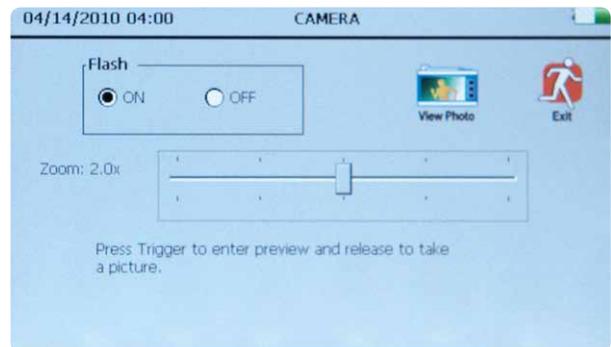
Camera Display
• Take a photo
• Zoom feature to capture a test point close up
• Built in flash, which you can turn on or off
• Store image data
• Test data embedded into image for report enhancement

Ultraprobe® 15,000 Touch Applications

The Ultraprobe® 15,000 Touch is the ultimate inspection system. Used for almost any plant application, the system will measure, analyze and collect all data using simple touch screen technology during your route inspection.

You have never experienced a system so robust, that it's simple. Specific applications where the Touch is currently utilized are as follows:

On Board Analysis of Mechanical Inspection/Trending

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

On-Board Analysis of Electrical Inspection

For detection and analysis of these failure modes:

• Arcing
• Tracking
• Corona

For use in these applications:

• Switch gear
• Transformers
• Insulators
• Relays
• Bus Bars

On Board Analysis of Leak Detection/ Energy Conservation

Valves
Steam Traps
Compressed Air
Compressed Gases (O_2, NO, etc.)

Ultraprobe® 15,000 Touch 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)
Response Time	<10ms
Display	QVGA Touch Screen - IR, Laser Pointer, Camera, Spectrum Analyzer
Sound Recording	WAV File Format
IR Temperature	-20 °C to 500 °C
Camera	2.0 Mega Pixel
Laser Pointer	Europe Only Output <1mW – Wavelength 640nm – Class II Laser Product
Laser Pointer	All but Europe Output <5mW – Wavelength 640nm – Class IIIa Laser Product
Memory	400 storage locations
Battery	Lithium ION Rechargeable
Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)
Outputs	Calibrated heterodyned output, decibel (dB) frequency, SD card
Probes	Trisonic Scanning Module and 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 .127 mm (.005") diameter leak @ .34 bar (5 psi) at a distance of 15.24 m (50 ft.)*
Threshold	1×10^{-2} std. cc/sec to 1×10^{-3} std. cc/sec
Dimensions	Complete kit in Zero Halliburton aluminum carrying case 55 x 47 x 20 cm (21.5" x 18.5" x 8")
Weight	Pistol Unit: 1.1 kg (2.35 lbs.)
Complete carrying case	8.6 kg (19 lbs.)
Warranty	1-year parts/labor standard, 5 years with completed warranty registration card
Display Modes	dB (main), IR, ABCD, Spectrum and Application Specific, Spectrum Analyzer (modes): Spectrum, Time Series & Dual Specific
Ultraprobe 15,000 Kit	Meets and exceeds ASTM E1002-2005 requirements for Leak Detection

*depends on leak configuration

So sophisticated, it's easy!

You will be amazed at how quickly you improve your inspection capability – helping to increase your asset availability throughout your plant while reducing energy waste. Plus, the reports you'll generate will help management understand how important your ultrasonic condition monitoring program is to improving your company's profitability.

At last, you can test the way you want to test with all the features you need for accurate results. Now you can truly read the future and actually report it with the Ultraprobe® 15,000 Touch.

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