

Ultrasound Detection Kits

For condition monitoring and leak detection

RECEIVER SPECIFICATIONS

Sensitivity threshold:	
Minimum intensity	10 ⁻¹² W/m ² (0 dB SPL)
Minimum ultrasonic pressure	2.0 x 10 ⁻⁵ PA @ 40 kHz
Frequency bandwidth	1.8 - 2.2 kHz @ level 0.7 (or -3 dB SPL)
Working resonance frequency	40 kHz ±1.5 kHz
Reception distance, max	150 feet using UD003 large concentrator 300 feet using optional UD300 range extender
Power supply	9-Volt alkaline
Battery lifetime	>45 hours
Operating temperature range	-4° to +130° F (-20° to +54° C)
Dimensions	8.75" x 1.26" x 1.26" (222 x 32 x 32 mm)
Weight	11.6 oz (330 g)
Housing material	Extruded aluminum



HEADSET SPECIFICATIONS

Impedance	32 Ω ±15% @1 kHz
Sensitivity	95 dB +10%
Frequency response	Up to 5 kHz
Maximum input power	1.5 W
Volume control	Knob tuning
Material	Stainless steel behind-the-headband, velcro over-the-head band, gel earpads
Dimensions	9.8 x 8.03 x 4.09 in
Weight	1.39 lbs
Connector style	Mini XLR 5-pin jack



KEY FEATURES

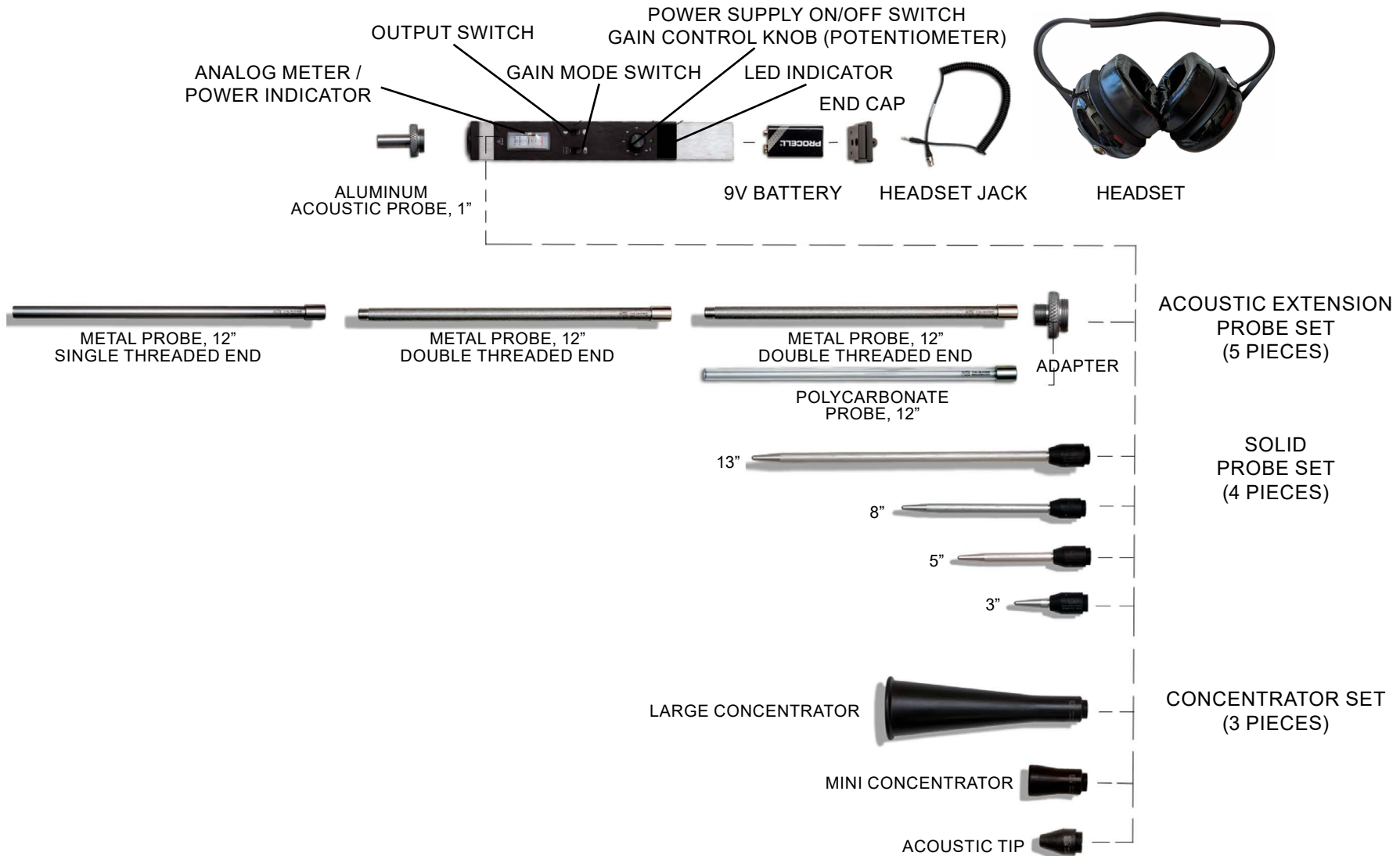
- Easy to use, point and shoot
- Cross-functional kits enable multiple applications
- Does not require calibration
- Long battery life, >45 hours
- Intrinsically safe models available
- Noise-cancelling headphones
- Complements vibration analysis

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

Ultrasound Detection Kits

PRODUCT RANGE

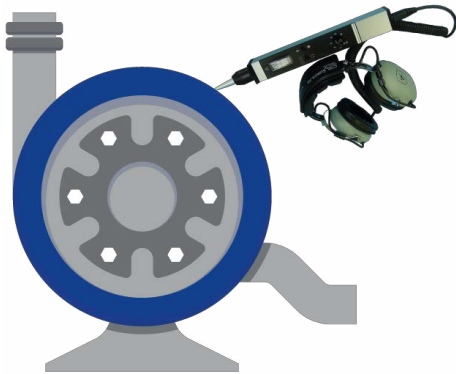
Application-specific kits for [condition monitoring](#), [valve and steam trap monitoring](#), [leak detection](#), and [electrical inspection](#) are available. Components can also be ordered individually.



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UDK-CM CONDITION MONITORING KIT

Hear, monitor and diagnose bearings, gears, pumps, valves, and cylinders. A cloud-based application analyzes, trends, and reports the condition of critical production equipment.¹



Receiver (optional Intrinsically Safe certification)

Headset

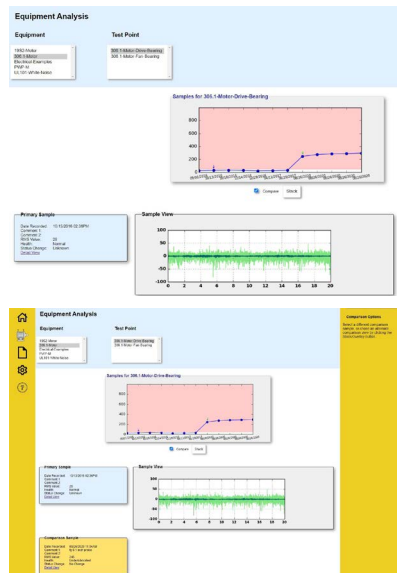
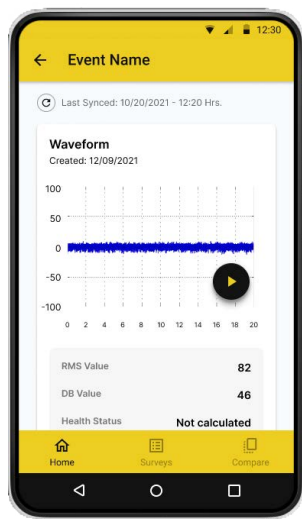
Solid probe set:

- 3"
- 5"
- 8"
- 3"

1yr subscription, cloud-based condition monitoring app (optional additional kits can be subscribed)

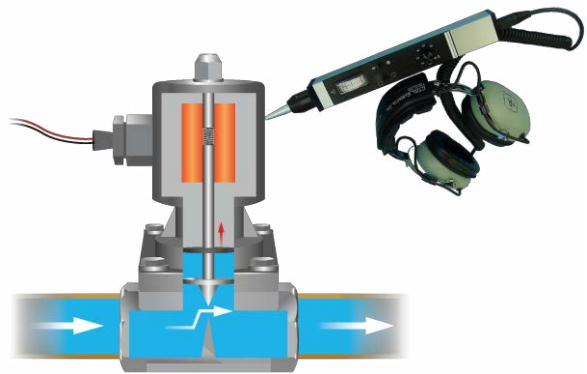
Heavy duty carrying case

¹ Includes all components for valve and steam trap monitoring



UDK-VL VALVE AND STEAM TRAP MONITORING KIT

Save money by detecting internal by-pass leaks with a single point inspection.



Receiver (optional Intrinsically Safe certification)

Headset

Solid probe set:

- 3"
- 5"
- 8"
- 13"

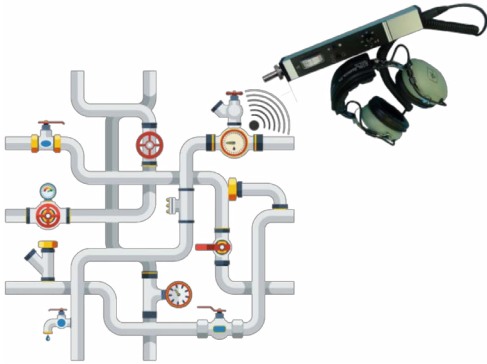
Heavy duty carrying case

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Airborne Ultrasound Detection Kits

UDK-LK LEAK DETECTION KIT

Detect leaks of any type of gas from vacuums, valves, steam traps, and HVAC systems.²



Receiver (optional Intrinsically Safe certification)

Headset

Concentrator set:

- Acoustic tip
- Mini concentrator
- Large concentrator

Acoustic extension probe set:

- Adapter
- Metal probe, double threaded end, 12" (2)
- Metal probe, single threaded end, 12"
- Polycarbonate probe, 12"

Aluminum acoustic probe, 1"

Heavy duty carrying case

² Includes all components for electrical safety inspection

UDK-EI ELECTRICAL INSPECTION KIT

Detect corona discharge, tracking, and arcing from a safe distance, with no need to remove panels.



Receiver (optional Intrinsically Safe certification)

Headset

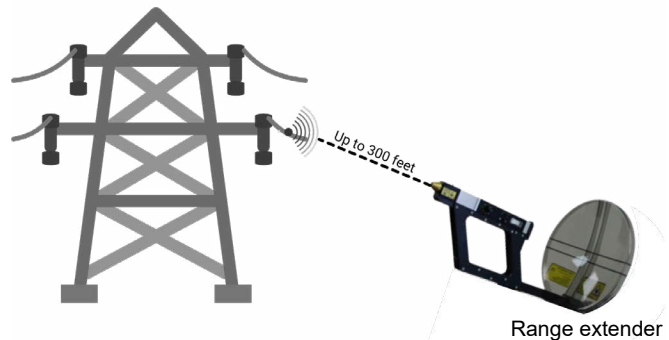
Concentrator set:

- Acoustic tip
- Mini concentrator
- Large concentrator

Polycarbonate acoustic probe, 12"

Heavy duty carrying case

Optional range extender (300 feet)



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