

# ULTRASOUND SOLUTIONS FOR CONDITION MONITORING AND LEAK DETECTION



Powered by:



## ULTRASOUND DETECTOR

- Easy to use, "point and shoot"
- Long battery life, >45 hours
- Standard and intrinsically safe models
- Trusted in the world's most demanding applications, including the International Space Station

### **Complements vibration monitoring**

Add the UDK-CM ultrasound detection kit to your condition monitoring routine to hear bearing over- and under-lubrication and other conditions that lead to bearing wear. In some cases, like slow-speed bearing monitoring, ultrasound detection can pinpoint troubles even before traditional vibration monitoring. A cloud-based app lets you analyze, trend, and report upon the condition of the critical production equipment in manufacturing facilities.

### **Finds all turbulent flow leaks**

The UDK-LK kit includes everything needed for compressed air/gas, vacuum, and valve leak detection. Unlike traditional "leak detectors," which detect a characteristic of a specific gas, the UL101 detects the turbulent airflow of any compressed gas.

### **Identifies electrical defects from a safe distance**

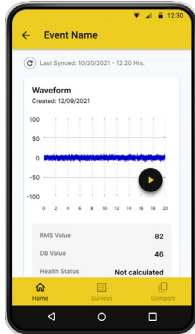
The UDK-EI kit detects corona discharge, tracking, and arcing from a safe distance, up to 150 feet, with no need to remove panels. A parabolic range extender makes it possible to inspect electrical lines from up to 300 feet away.

[Click to see the specifications and kits.](#)



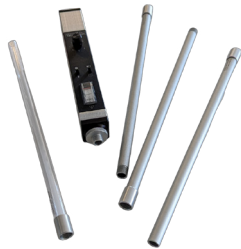
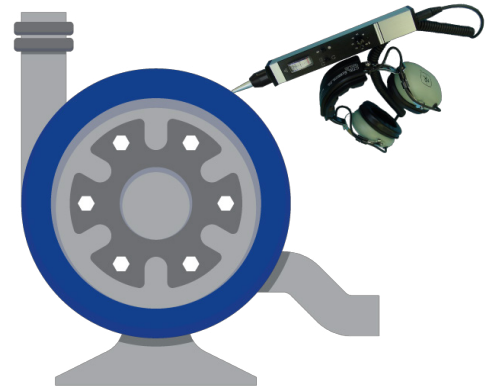
# ULTRASOUND DETECTION APPLICATIONS

The receiver detects and converts ultrasound produced by mechanical, pneumatic, hydraulic, and electrical systems. Changes in the amplitude and characteristics of the ultrasound are comfortably detected in noisy plant environments. Leaks are easily pinpointed. Electrical issues are safely exposed. Equipment problems such as bearing monitoring are diagnosed even earlier than other technologies such as infrared inspection and oil analysis, enabling ultrasound to complement traditional vibration monitoring methods and enhance condition-based monitoring programs.



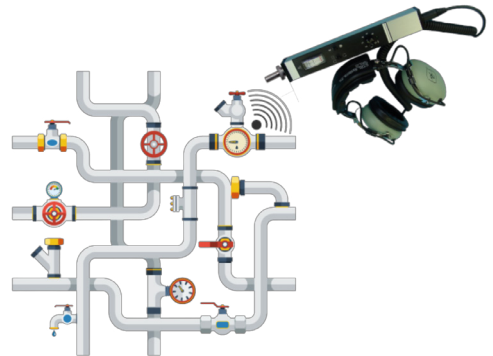
## Motor Bearing and Gearbox Monitoring

Easily distinguish the different sounds produced by motor bearings in different conditions such as under lubrication, over lubrication, and excessive wear. [See the complete UDK-CM Condition Monitoring Kit.](#)



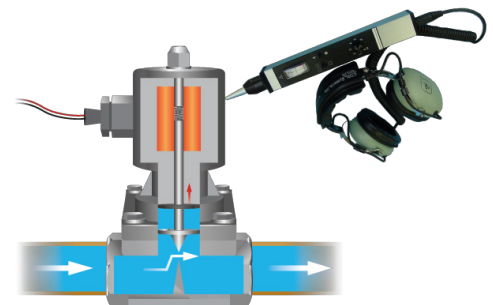
## Leak Detection

Indicate and locate pressurized and non-pressurized system leaks of any type of gas. [See the complete UDK-LK Leak Detection Kit.](#)



## Valve and Steam Trap Monitoring

Detect internal by-pass leaks and diagnose operating condition. [See the complete UDK-VL Valve and Steam Trap Monitoring Kit.](#)



## Electrical Safety Inspection

Detect arcing, tracking, and corona discharge in low, medium, or high voltage settings. [See the complete UDK-EI Electrical Safety Inspection Kit.](#)

