

LabVIEW Captures and Analyzes Sound Data from Industrial Machinery

Customer

UE Systems Inc. (Elmsford, NY) manufactures ultrasonic instruments for leak detection, mechanical analysis, and electrical inspection.

Challenge

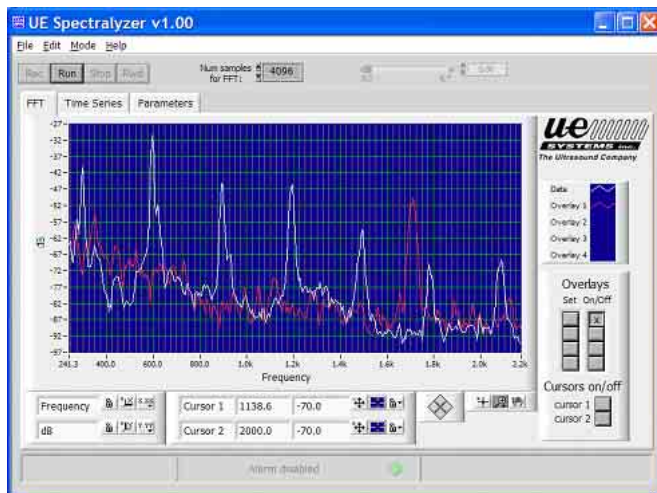
Detect sources of energy waste in industrial machinery such as compressed air leaks, steam trap and valve leaks, inefficient machinery, air infiltration, and electrical emissions.

Solution

Develop a spectrum analyzer that isolates and analyzes the spectral content of sound signals output from industrial machinery on a plant floor.

Key products used:

- National Instruments LabVIEW



User interface displays live data in FFT plot



An example application of the virtual spectrum analyzer

Benefits

The LabVIEW-based spectrum analyzer enables users to understand the input sound data, locate peaks of interest in the fast Fourier transform (FFT), and create FFT snapshots for future analysis.

**To purchase the LabVIEW spectrum analyzer software, contact UE Systems Inc.
(914) 592-1220 or www.uesystems.com**

**To discuss your sound and vibration application, contact Bloomy Controls
(860) 298-9925 or www.bloomy.com**

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