4Cast

Bearing Condition Monitoring System

Save time, save your bearings and improve plant reliability

Review bearing information from the convenience of your office

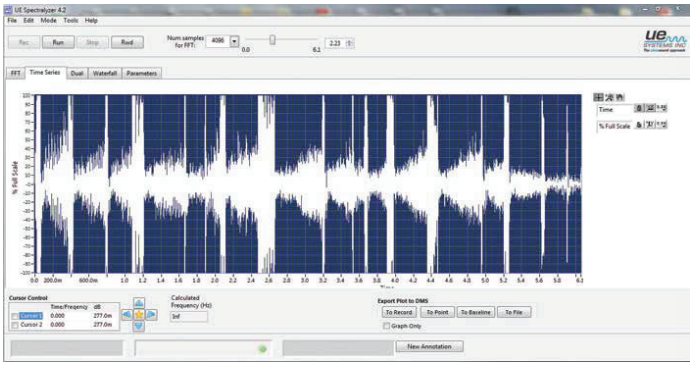
Monitor bearing condition 24/7 and tell 4Cast when to send a report.

This unique, system continuously logs bearing data and bearing sounds. At pre-set intervals, all stored data and sound samples are sent to a computer for reporting and analysis.

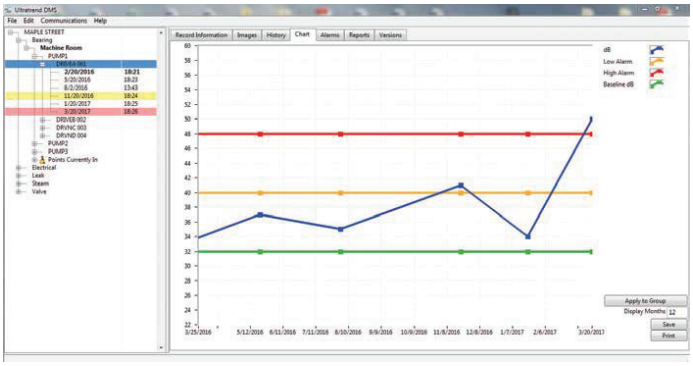
How often do you want 4Cast to sample a bearing? System flexibility allows users to pre-set how often a bearing will be tested: by the minute, hour, day, etc.

Customize your report intervals

Data and sound recording transfer rates are customizable so that while the data are routinely recorded on the 4Cast box, a report containing only the latest information will be sent to Ultratrend DMS (UE Systems data management analysis and reporting program) via your existing Ethernet network. Reporting frequency can be set by the user (for example, once a week, month or year).



UE SPECTRALYZER™ - Spectral Analysis Software (Time Series tab screenshot)



ULTRATREND DMS™ - Data Management Program (Chart screenshot)

So advanced, it's simple

UE SYSTEMS INC

Set your alarm levels

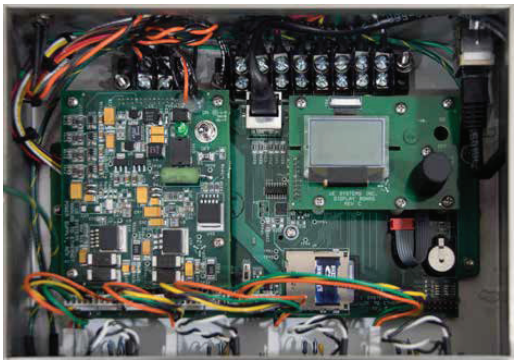
Alarm levels can be set to provide a low alarm and a high alarm.

Analyze how and why the alarm went off

Utilizing the power of airborne ultrasound, there is no contact with the electrical components of the equipment being monitored, making installation safer and easier.

1. When a set alarm level is reached or exceeded, the system will send previously logged data and recorded sounds directly to Ultratrend DMS for review.
2. After an alarm has been addressed, all data and sound recordings stored during the alarm period can be set to transfer to the computer for more detailed analysis and reporting.

Each 4Cast box monitors up to four bearings.



UE 4Cast opened box circuits

Specifications

Case	Stainless Steel; Dimensions: 9"x6"x3" (22.8cm x 15.24cm x 7.62cm) Weight: 4.7 lbs. (2.1 kg)
Power input	24V, 1 amp (conditioned)
Circuitry	Solid State Analog and SMD Digital with temperature compensation and true RMS conversion
Frequency Response	20kHz-100 kHz Centered around 30 kHz
Response time	<10ms
Operating Temperature	32°F - 122°F / 0°C - 50°C
Transducer	RAS piezoelectric, stainless steel housing
Cable	BNC out to BNC in (length: 25' / 7.62 m, can be ordered up to 100 feet / 30,48 m)
Transducer Mount	thread: female10/32
Software	Ultratrend DMS 6.0 or higher