# Alert RTATM – Real Time Analysis software for TRIO portable devices

ALERT RTA™ adds new power tyour TRIO® data collectors with real-time, four channel simultaneous data acquisition and cross channel capabilities. ALERT RTA allows the export of collected data for modeling and other applications. With ALERT RTA, the full capability of data collection is realized. In addition tspectrum and waveform collection for four channels, ALERT RTA provides advanced measurement techniques such as transfer functions, coherence and cross-power spectrum.

ALERT RTA readings can be exported into ASCII and Universal File Format (UFF) for input into Operating Deflection Shape (ODS) software such as Clear Motion or ME Scope.

## Supported data types:

* Time Domain (Up t41 KHz sample rate)
* Long Time Capture (Capture events lasting from 6.4 seconds t3,276.7 seconds, or 54.6 minutes)
* Spectra (25,600 maximum lines resolution max frequency range of 16 KHz)
* RMS (Overall)
* DC
* Speed
* 1X Amplitude / Phase
* Triggered measurements
* Time Synchronous Averaging
* Transfer Function
* Coherence
* Cross Power
* Envelope Demodulation
* Bump Test
* Modal Analysis
* Export ALERT RTA readings intUniversal File Format (UFF) for input intOperating Deflection Shape (ODS) software suc as Clear Motion or ME Scope

Each of the four input channels can be independently configured for different transducer types, units or signal conditioning. Cross-channel measurements can be collected for channels 1-3 relative to the 4th channel. Users can configure triggered measurements or long time captures. Many different measurements can be displayed in the multi-document interface and update simultaneously as data are collected, to give the look and feel of a real-time analyzer.

ALERT RTA can be installed on your desktop computer. In this type of installation, ALERT RTA will not be able to collect data, but will fully function as a viewer of data collected by the portable data collectors.

Using ExpertALERT’s “User Defined Point” feature, special tests performed using RTA can be associated with machinery in your condition monitoring program and are accessible from the ExpertALERT tree. Click on the test and ALERT RTA (in viewer mode) will open up and display the appropriate data.