

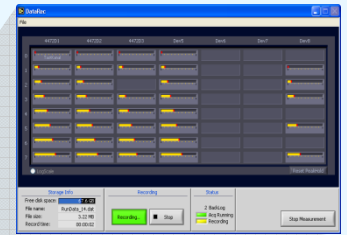
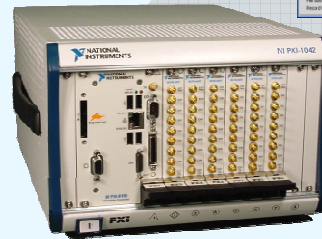
High Datarate Recording System

Overview

- High performance data streaming to disk
- TDM-Format
- Hierarchical data storage
- Modulare system architecture based on standard components
- Application ranging from simple single channel measurement to acquisition of hundreds of sensor signals
- 16/24-bit resolution
- Simultaneously sampled analog inputs
- Easy und intuitive user interface

Hardware

- PXI Embedded Controller with Windows XP
- PXI 4,8 and 18-Slot Chassis
- Miscellaneous PXI data aquisition boards



Software

The DataRec measurement system is design to aquire and store high amount of data to disk.

The easy and intuitive user interface allows simple one-button controlled start and stop of the data storage with automatic filename generation .

Measurement configuration can be loaded, edited and saved. A build in editor allows a customized configuration of the aquisition task. Additionally, any preconfigured DAQmx-Task from NI-MAX can be used righth away to perform the measurement.

Based on the configuration, the acquired data is stored into a hierarchical file structure. Therefore, managing and searching the data is strongly simplified.

The stored data integrates seamless into NI's Technical Data Management System (TDM). All TDM capable analysis tools like DIAdem, LabVIEW, Matlab can be use to process the data directly without any conversion.

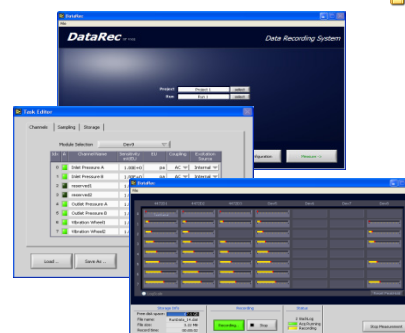
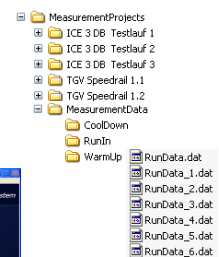
During measurement, the application panel indicates acquisition status, quality of signal and information about free disk space to the user.

Application

- Vibration
- Sound
- Longterm datalogging
- Portable field measurement
- Machine condition monitoring

Addons

- Upgradable by any standart PXI Analog Input Module
- Customized online- visualisation und processing (Trends, RMS-calculation, frequency anlysis, limit checking, alarming etc.)
- Direct data streaming to external USB-Harddisk
- MXI-Interface / Network data acquisition



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