

DSP ECT

Windows XP-Based Data Acquisition Upgrade for Bruker AC & AM Spectrometers

The DSP ECT data acquisition system totally replaces the ASPECT 3000 computer on Bruker NMR spectrometers including the associated computer peripherals, process controller, offset oscillators and Fourier filters. All of the existing functions including the use of the SCM are retained.



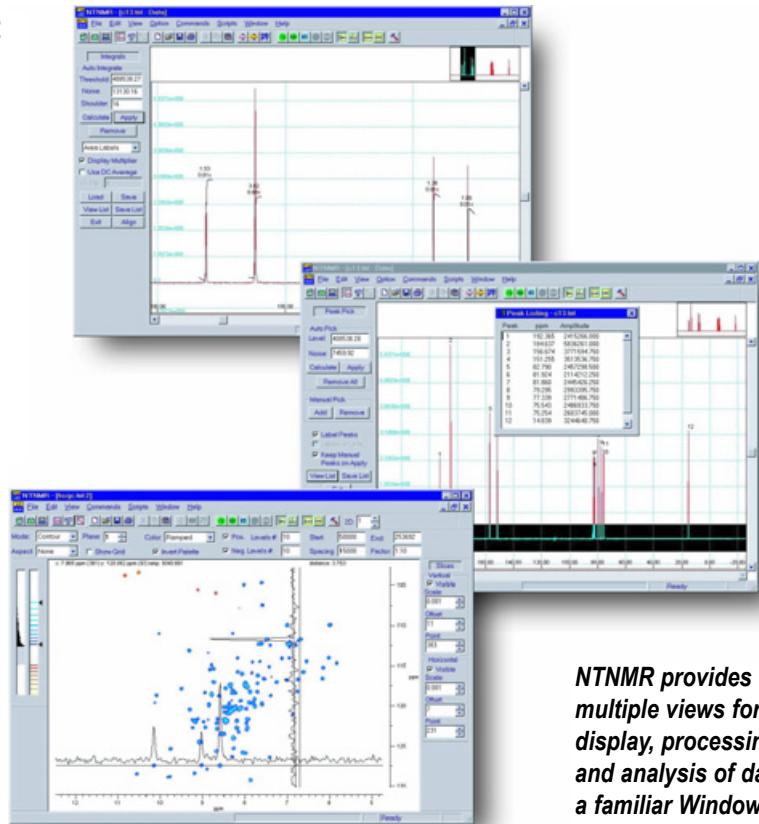
The affordable DSP ECT data acquisition system contains:

- Digital signal processor-based pulse programmer
- Signal averager with 4-MWord complex memory, expandable to 32-MWord
- Choice of dual 12-bit 1 MHz or 16-bit 500 kHz digitizers
- Mini-tower PC
- NTNMR spectrometer control software running under Windows XP Professional
- Fourier filters, direct digital synthesis offset oscillators, Bruker interface modules



Modern Technology

The DSP ECT system draws heavily on the latest advancements in digital surface mount technology including Digital Signal Processors (DSP) to control instrument functions.

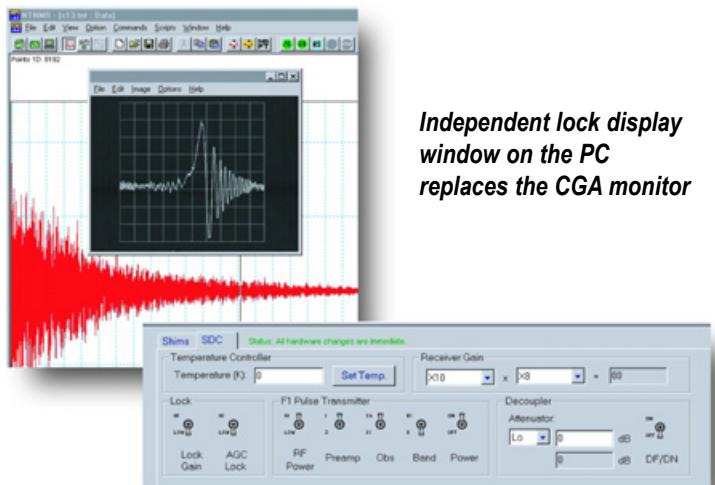


NTNMR provides multiple views for display, processing and analysis of data in a familiar Windows environment



DSPect Advantages:

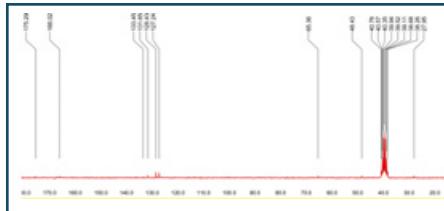
- Industry-standard Windows XP computer with Ethernet
- NTNMR software site license for instrument control and data processing
- Fast data processing: A 1K x 1K COSY takes less than 1s
- Easy to use graphical user interface
- Plug-to-plug compatibility, allowing installation without any tools
- Cost 80% less than a replacement system
- Remote Instrument Control



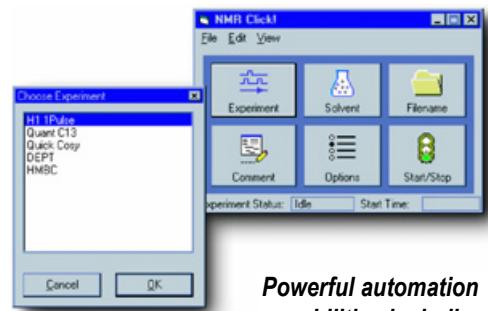
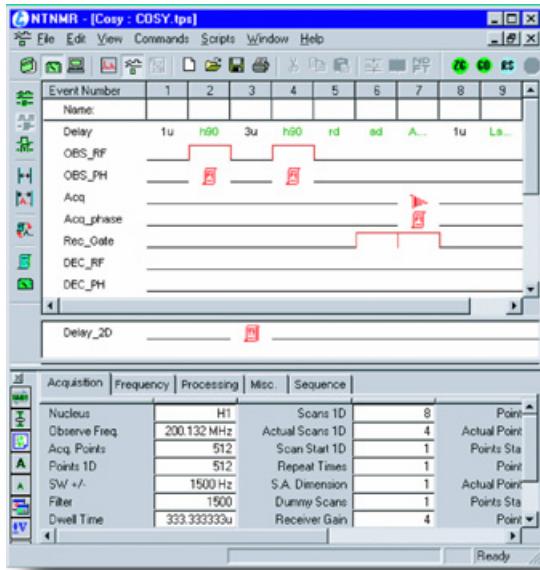
NTNMR Slow Device Channel control panel

¹H & ¹³C Routine Spectroscopy

Data courtesy of Dave Swenson, Ph.D. - Saginaw Valley State University



Graphical Pulse Sequence Editor
NTNMR includes a pulse sequence library of routine 1D & 2D experiments



Powerful automation capabilities including point-and-click operation of the spectrometer with NMRscripts.

For a small fraction of the cost of a new system, the Bruker AC or AM spectrometer can be transformed into a modern, user-friendly data acquisition system. Contact us today for detailed information and specifications.



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