

# DSPECT

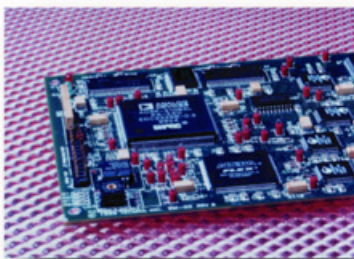
## Windows XP-Based Data Acquisition Upgrade for Bruker AC & AM Spectrometers

The DSPECT 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.



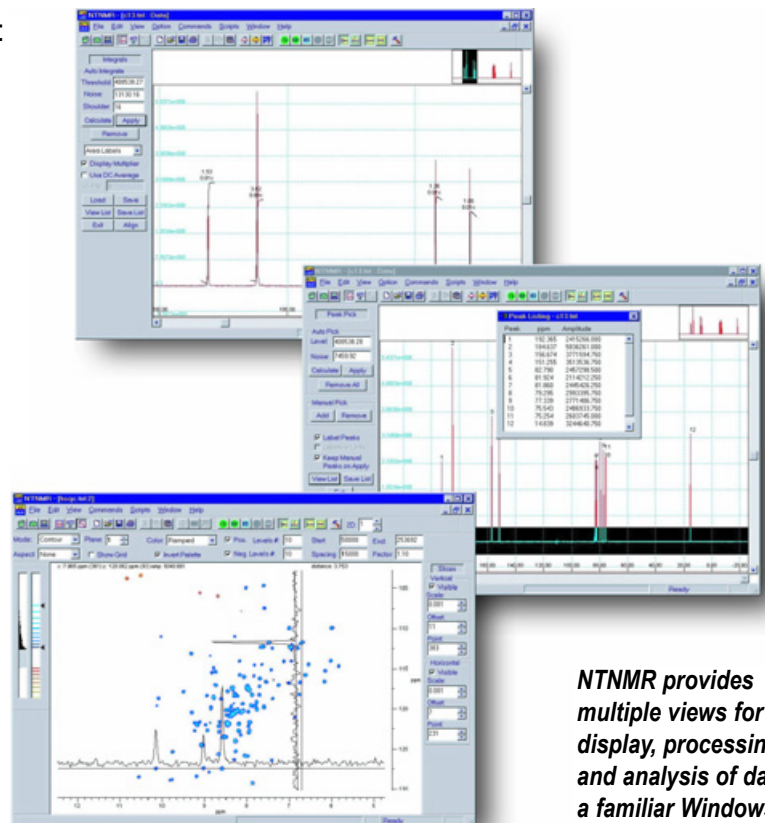
The affordable DSPECT data acquisition system contains:

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

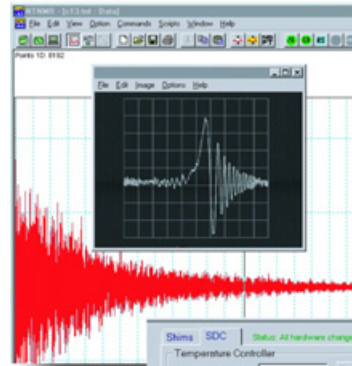


*NTNMR provides multiple views for display, processing and analysis of data in a familiar Windows environment*

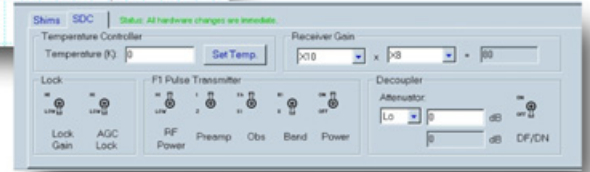


**DSPeCT Advantages:**

- 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

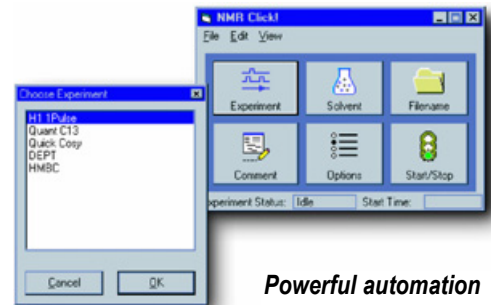
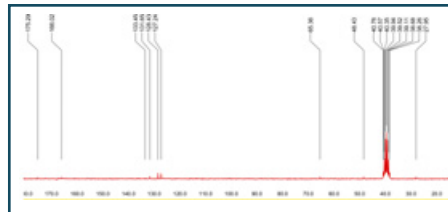
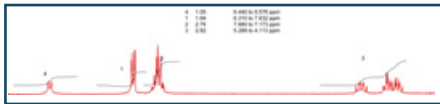


*Independent lock display window on the PC replaces the CGA monitor*



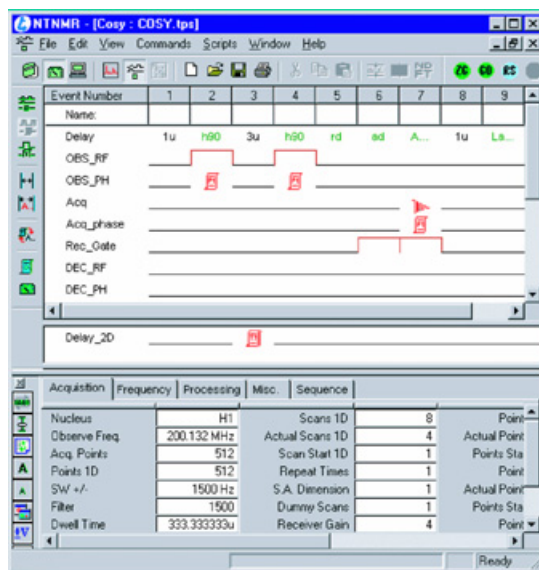
*NTNMR Slow Device Channel control panel*

**<sup>1</sup>H & <sup>13</sup>C Routine Spectroscopy**  
Data courtesy of Dave Swenson, Ph.D. -  
Saginaw Valley State University



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

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



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.

