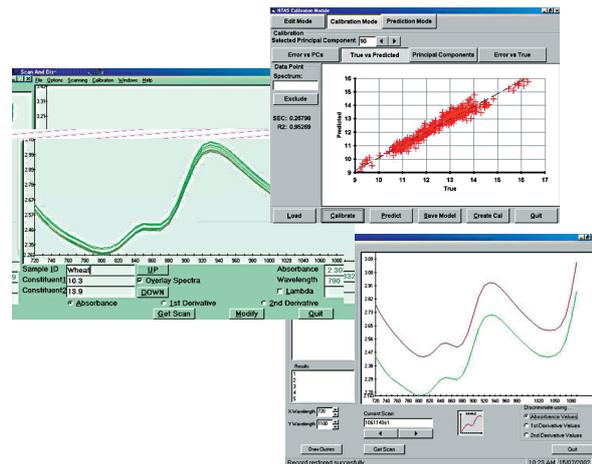


# NTAS

## NIR Technology Analysis Software

NTAS is a software suite developed to provide users of NIR Technology Systems' instruments the ability to develop applications using Discriminant Analysis and Partial Least Squares Regression. The major attraction of NTAS is the ease of use, yet it offers a comprehensive range of chemometric tools to collect spectra, transform spectra, extract spectral information and to develop models to make quantitative and qualitative measurements using NIR analysers.



### NTAS has four operating functions:

**Scan and Display:** allows the operator to connect the analyser to a PC, collect spectra using a range of setup parameters, overlay spectra, edit constituent data, convert to 1st and 2nd derivative spectra, SNV and MSC spectra, average spectra and save spectra.

**Discriminant Analysis:** based on Mahalanobis Distance, this routine allows users to develop libraries of NIR spectra, scan unknown samples, identify unknown spectrum from the library, provide a quality parameter, "Sameness Value", to show how close a spectrum is to the library spectra.

**Analysis:** allows users to run quantitative analysis from a PC, save results and produce plots of the data.

**Calibration:** provides the ability to load spectral files from our NIR analysers, edit the constituent data, perform Partial Least Squares (PLS) calibration, test calibrations against test sets, plot Predicted vs Reference data, Residual vs Reference Data, Principle Components vs Error, exclude and include spectra directly from plots, save models, create calibration files with product and constituent names, calibration ranges and ASIS/CM correction values, and downloads calibration files into NIR analysers.

### Features:

- Plug and play,
- Intuitive Operations
- Sophisticated routines
- User friendly

### Benefits:

- Simple PC interface to instruments
- RS232 Serial
- Button/menu driven software
- Single key operations for all functions
- Pull down menus for parameter set-up
- Partial Least Squares Regression calibration
- Discrimination analysis
- Easy to use for novices and researchers

### Specification:

NTAS runs on Windows Xp, Vista and 7.0 drive



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