## Specification

System Control

Fully automatic control of all system functions through PCI interface card Sample mapping, sample temperature control, automatic polarisation selection (option). Inkd-80001 motorised angle control (option)

Calibration

· Automatic calibration on reference sample before each measurement

Measurement

· Simultaneous measurement of transmittance and reflectance from same area.

Scan: 1nm + steps, Interval and readings programmable.

· Scan range programmable in 1nm steps

· Layer representation with thickness and material name

 Realtime graphical representation of : transmittance & reflectance spectra, n & k also tabular format: T & R and n & k vs wavelength

· Graph axis display functions

**Data analysis** 

. Determination of n, k and d for up to 5 layers with 2 unknowns.

Automatic(default) and advanced analysis modes.

. Dispersion Models: Cauchy, Drucle-Lorentz, Aquila, NK

Regression Techniques: LM, Powell, Global

· Analyse:Transmission, Reflection or both

. Colour co-ordinate calculations

Solar calculations

· Metal film algorithms

· Coherence factor for uneven surfaces, inhomogenous layers

Printing

· Print preview function, page setup, copy to clipboard

Saving · Data file (.opp), bitmap, jpeg

Exporting

· Essential Madieod, Microsoft Word, Microsoft Excel - graphics and data

Database

· Comprehensive materials database for automatic analysis function • 32-bit Microsoft Windows 2000

Operating system Sample mapping

Programmable control for mapping of sample area 100 x 100mm.

Optional offline capability - standalone software license.

Variable angle

· Programmable control of incident beam angle from 0 to 90 degrees.

Temperature scan

Programmable temperature scan for spectral collection ambient to 150 degrees C.

Offline analysis

Modules

NK View model generation program.

. Pro-Optix Merger - merge s- and p- polarisations for combined analysis and manipulating measured data



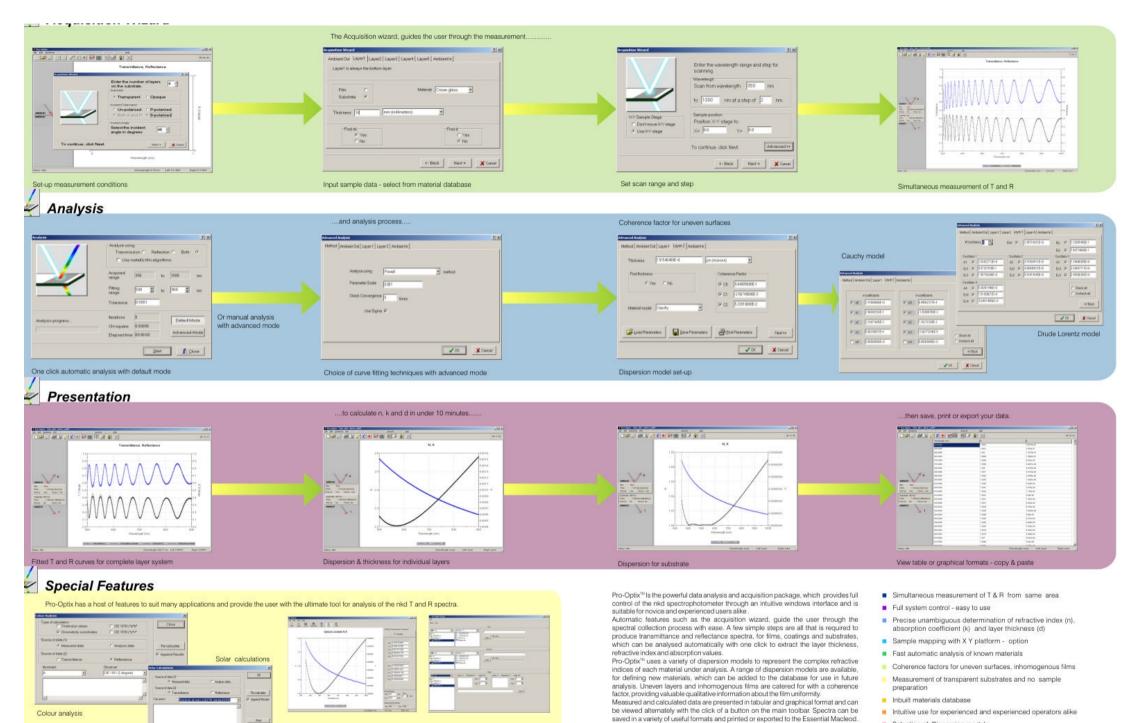
## Pro-Optix<sup>™</sup> Control and analysis software for the nkd Series

Advanced Thin Film Characterisation









NK View material model generator

Spectral merger tool

Selection of Dispersion models

Online & offline analysis capability

S- and p- spectra can also be combined with the merger tool for accurate profile

matching.