

THE SPR100 FOURIER-TRANSFORM SPR SYSTEM

Fourier-transform surface plasmon resonance (FT-SPR) systems perform wavelength scanning SPR detection in the near infra-red. Benefits of FT-SPR analysis include:

High sensitivity.

Capabilities archived by this sensitivity include detection of film thickness changes of $<1\text{\AA}$, and the binding of small molecules to immobilized proteins.



The greatest dynamic range of any commercially available SPR system.

Operating from $\sim 11,000$ to $6,000\text{ cm}^{-1}$, the SPR 100 captures quantitative data for major surface changes as well as subtle ones.

Scope for applying SPR analysis to an extraordinarily diverse range of applications.

The broad scope is due to the combination of broad spectral range with broad incident light angles from ~ 40 - 70° . Measurements can be made in liquid or in gas phases, further expanding the usefulness of the system.

Applications of FT-SPR analysis include the quantitative characterization of:

- Protein-protein, protein-ligand and protein-nucleic acid interactions
- Antibody-antigen interactions
- Langmuir-Blodgett films
- Self-assembled monolayers
- Organic thin films

Whether your interests are in biomolecular interactions, development of surface chemistries, or analysis of surface films, Fourier-Transform SPR analysis provides a powerful approach to quantitative measurement.

Product Details

For the ultimate in convenience, GWC Technologies and Thermo Electron Corp. have developed an integrated system that combines FT-SPR detection with Thermo's top-of-the-line FT-IR spectrometers.

For information on this integrated system please contact GWC Technologies Technical Support.

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