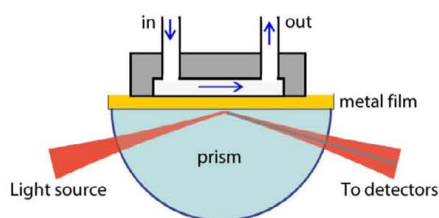


Applications

When it comes to research instruments, flexibility means versatility. Here at BI, our instruments can help with applications ranging from life science and drug discovery to electrochemical and chemical vapor analysis, while maintaining high sensitivity and wide time response range. This is made possible by our unique modular design, which allows you to tailor the instrument to fit your own individual research needs.

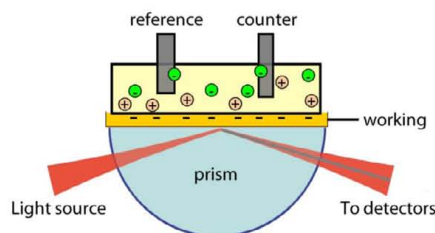
Life Science



Our flow injection technology enables you to study biomolecular interactions and kinetics with greater resolution and precision, and is perfect for a diverse array of life science applications such as:

- Drug discovery and development
- Protein/DNA/drug interaction studies
- Gene assays and immunosensing
- And much more

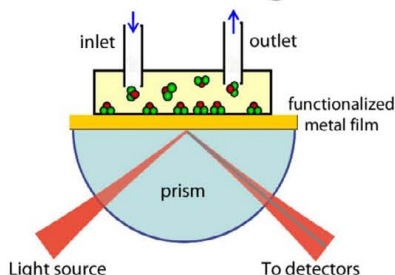
Electrochemistry



Our EC-SPR technology can open new doors in your research by letting you apply and develop electroanalytical techniques, as well as give you additional information and new insights into various electrochemical and surface processes such as:

- Anodic stripping analyses
- Electropolymerization and electrodeposition
- Redox-related conformational change
- And much more

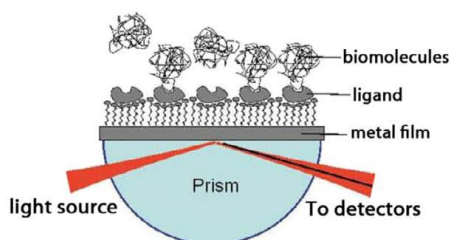
Chemical Vapor Sensing



Unlike other SPR instruments, BI-SPR technology is capable of molecular binding analysis in gas phase. In addition to chemical vapor detection, our instruments facilitate sensor development, thin film characterization, and numerous other gas phase applications, which can help you study:

- Fundamental solid-gas interface interactions
- Detection of toxic molecules in the environment
- Chemical analyses for medical research
- And much more

Environment, Food & Beyond



The power of our instruments goes well beyond the lab. The BI-SPR systems are flexible for broader applications, whether it's food safety, quality control, environmental monitoring, or the development of new high-performance SPR and coupled SPR techniques. Let BI-SPR technology expand your research capabilities and boundaries.



Analysis Modules for Various Applications

BI-SPR technology enhances your research capabilities for a broad range of research applications. Our system of interchangeable analysis modules is designed to meet a large variety of research needs, allowing users to easily switch among flow injection, electrochemical, and gas phase detection applications.

Flow Injection Modules



BI-DirectFlow™ Module

For advanced two-channel ultra-fast kinetics research



Flow Injection Module

For two-channel flow injection SPR research

Electrochemistry Modules



EC-DualFlow™ Module

For advanced two-channel electrochemical SPR research



EC-SPR Module

For electrochemical SPR research

Gas Phase Module



Gas SPR Module

For gas and chemical vapor research

BI Sensor Chips

Type	Description	Applications
Bare Gold Chip	47nm Au/2nm Cr	Sensor Development EC-SPR, Gas SPR Lipid*
Divided Bare Gold Chip	Gold film separated into four regions	Sensor Development EC-SPR, Gas SPR Lipid*
PEG Chip	2-D Planar, PEG/ PEG-COOH Low non-specific adsorption	Amine coupling Biotin* and His-tag*
CM Dextran Chip	3-D Matrix, Carboxymethyl Dextran Low non-specific adsorption High loading capacity	Amine coupling Small molecule

*Protocols available upon request

