

## Revolutionizing Research With Surface Plasmon Resonance Instruments

Surface Plasmon Resonance (SPR) has emerged as a powerful optical detection technique for studying label-free biomolecular interactions in real-time. At Biosensing Instrument Inc., our innovative designs have made us a leader in providing high-performance SPR instruments to the research community.

Our instruments offer high sensitivity for detecting analytes of various sizes and studying wide kinetic ranges of molecular binding processes in diverse application areas such as:

Life science research  
and drug discovery



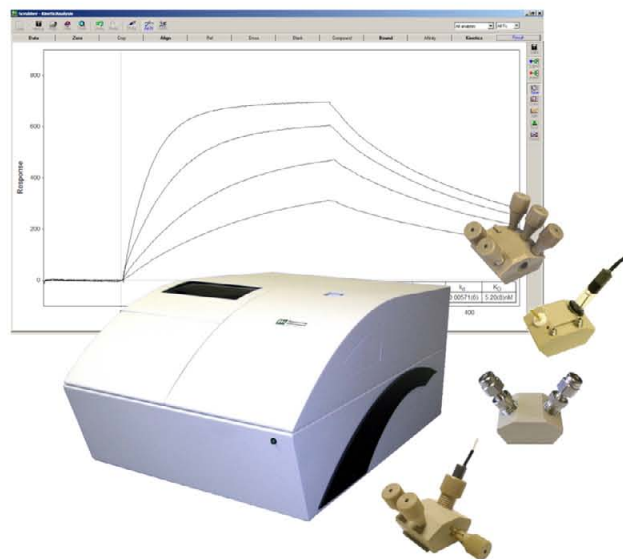
Electrochemical  
analysis



Chemical vapor  
sensing



Environment,  
Food &  
Beyond



### Precision Instruments. Committed People.

BI-SPR instruments are versatile and unmatched in their ability to tackle a broad range of applications. Unlike other SPR instruments, our innovative use of interchangeable analysis modules allows for a single instrument to carry out research not only in the life sciences, but also in electrochemical and gas-phase applications. Our unique detection method also achieves both high sensitivity and fast detection speeds to provide you with superior, high-quality data at a completely affordable price.

Here at BI, innovative technology and incredible people unite, providing our customers with outstanding service.

Available in Canada from...

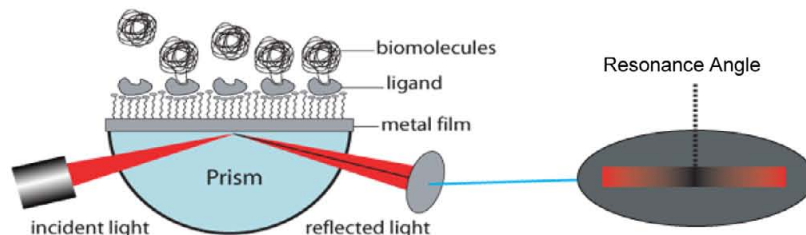
MJS  
**BioLynx**  
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# The BI-SPR Technology

SPR can detect molecular binding events or conformational changes of molecules by measuring the surface plasmon resonance angle. Our BI-SPR technique excites and detects surface plasmons by focusing light onto a metal film through a glass prism and detecting the subsequent reflection. At a certain resonance angle, light is absorbed, which creates a dark line in the reflected beam. The angular position of the dark line shifts as a molecule binding event takes place.



At Biosensing Instrument Inc., we use a unique detection method to achieve both high angular resolution and a fast sampling speed. Our instruments contain a precision reference channel to enable accurate background and reference subtraction, which are critical techniques for generating high quality data. In addition, our advanced microfluidic system ensures low-dispersion sample delivery, enabling finer observation and removal of secondary effects. BI combines high sensitivity, fast time response, and maximum versatility to meet the diverse application needs of individual users and deliver superior results.

## Our Instruments

Our SPR Instruments are uniquely designed to meet many application requirements with various interchangeable analysis modules that are optimized for research in the life sciences, electrochemistry, chemical vapor studies, and more.



BI-2000 Series



BI-3000 Series



BI-4000 Series

### With Analysis Modules



Flow Injection  
BI-DirectFlow™  
EC-DualFlow™  
EC-SPR  
Gas SPR

