

SPR Analysis Module

The SPR systems from Biosensing Instrument are module-based, designed specifically for their flexibility and versatility to maximize the research experience. The interchangeable analysis modules allow users to easily switch among fluid injection, electrochemical, and gas phase detection applications.

Key Features:

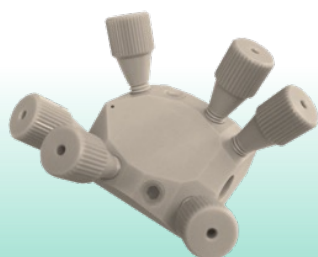
- ✧ *Innovative multi-module design for optimal flexibility and cost-effective solutions*
- ✧ *Module body and fluidic channels constructed with biocompatible materials*
- ✧ *Easy usage and simple cleaning and maintenance*



BI-DirectFlow™ Analysis Module

Precision Sample Delivery for Fast Kinetics with BI-4500

The BI-DirectFlow™ module delivers samples to the sensor surface with near-zero dispersion, which enables ultra-fast kinetics and high-resolution binding analysis. This unique technology offers more precise detection and removal of secondary effects such as bulk refractive index shift, mass limited transport, and non-specific binding. As a result, it gives high quality data and accurate molecular binding behavior. It comes with a multiple-channel configuration, and its small internal volume (< 1uL) conserves expensive reagents and valuable samples.



Flow Injection Analysis Module

Precision Sample Delivery for Binding Analysis with BI-2500

The flow injection module delivers the sample in a continuous flow stream to the sensor surface for the study of molecular binding interactions. It is optimized for reference and background subtraction, thus greatly reducing noise and drift in the measurement.

Gas-SPR Analysis Module

For Gas Phase and Chemical Vapor Sensing SPR

The Gas-SPR module enables high-sensitivity SPR analysis to be performed in the gas phase, permitting new capabilities for sensor development, thin film analysis, and environmental and air quality research.



EC-SPR Analysis Module

Simultaneous Electrochemical and SPR Analysis

The EC-SPR module facilitates simultaneous electrochemistry and SPR measurements on the same sensor chip. It provides fast potential step and voltammetry measurements and allows users to purge dissolved oxygen from the electrolytes.

EC-DualFlow™ Analysis Module

Dual Channel Electrochemical Flow-Through SPR

The EC-DualFlow™ module allows users to study molecular binding processes and conformational changes of biomolecules under the influence of applied electrochemical potentials at different flow rates. Its small channel volume facilitates rapid sample exchange and fast kinetic studies. It also drastically reduces the consumption of valuable biological samples. This innovative design allows users to perform serial downstream analysis and control experiments.



Summary of analysis modules offered in the various BI SPR models:

	BI-DirectFlow™	Flow Injection	EC-DualFlow™	EC-SPR	Gas-SPR
BI-4500	Included	NA	Optional	Optional	Optional
BI-2500	NA	Included	Optional	Optional	Optional



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Product specification and descriptions in this document subject to change without notice