



# Next-generation Biacore™ 8 series SPR systems

**Accelerate discovery with speed,  
scalability, and sensitivity**



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The high-throughput eight needle platform is designed for walk-away, automated discovery. The combination of high sensitivity and flexible workflows support a wide range of molecular interactions, from early discovery to late-stage development.

# Future-ready SPR for a fast-moving world

Integrated plate handling and flexible workflows reduce hands-on time, while supporting rapid screening and high-quality characterization across molecular modalities. Be prepared to accelerate confident decisions today and to evolve for the innovations of tomorrow.

## Throughput and efficiency

- Parallel analysis across 8 or 16 flow cells
- Screen 384 proteins in 15 min
- Estimate concentration of 384 proteins in 24 min
- Eliminate sticky LMW binders among 384 samples in 44 min
- Binding level screening of 384 samples in 4 h
- Multi-parameter screening support for more information faster

## Sensitivity with no molecular weight limit

- High resolution and stability to resolve ultra slow off-rates and the fastest on-rates
- Sub-picomolar detection for weak binders and fragment screening
- Analysis down to 1 pM concentrations

## Global support

- Validation support and full compliance with 21 CFR Part 11
- Access to experienced application scientists and service engineers
- Online and classroom training courses to help you get the most from all system features



## Proven automated SPR platform

- Integrated plate handling, no need for external robotics
- Temperature controlled sample compartment with up to twelve 96- or 384-microplates
- Method queuing ability with up to 72 h unattended run
- Buffer selector that automatically switches up to four buffers

## Robustness for results you can trust

- Robust microfluidics minimize mass transport limitations and rebinding inherent to well-based and dip and read format
- Crude samples and solvent compatibility analysis

## Ease of use—minimize start up and analysis time

- Biacore Insight Software used for both Biacore 1 series and Biacore 8 series systems
- API for seamless integration and automated data transfer
- Automated quality control that flags low quality data
- Supervised machine learning saves 80% in data evaluation time

## Accelerate discovery with critical insights for all steps in drug discovery

Biacore systems are designed to generate high-quality, information-rich data that answers critical questions about binding, so you can drive your research projects to confident conclusions.

### Affinity

How strong is the interaction?

### Binding kinetics

How fast or slow does the complex form and decay?

### Specificity

How specific is the interaction?

### Titer and concentration

How much of a given molecule is active?

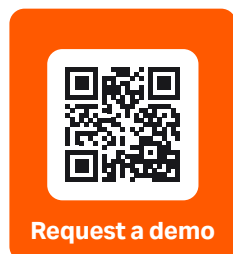
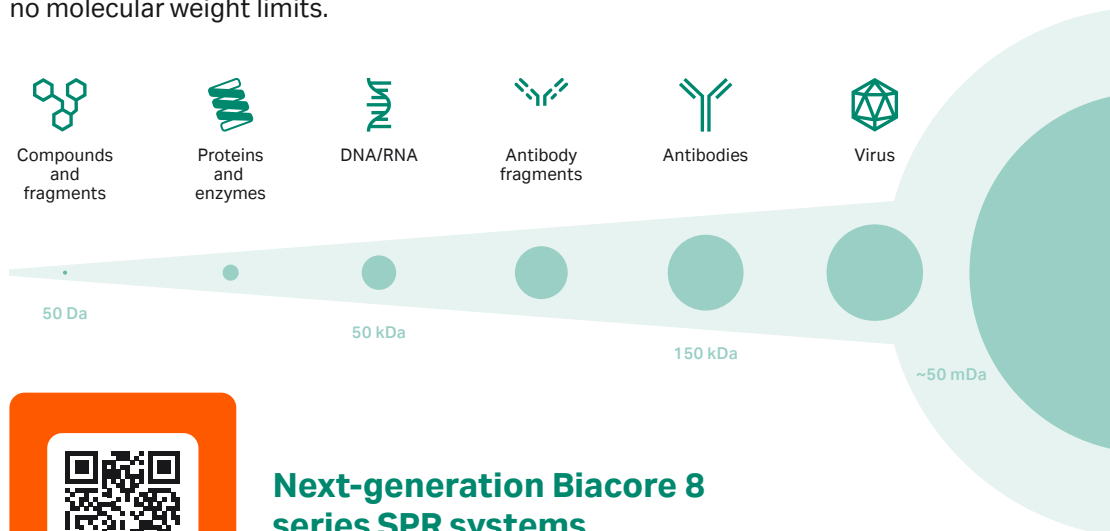
### Comparability with similarity score

How similar are samples?



Biacore 8S and Biacore 8S+ systems deliver high-throughput SPR with the flexibility to switch between screening and characterization, maximizing speed, scalability, and sensitivity while minimizing hands-on time through automation.

Real-time, label-free biomolecular interaction analysis using SPR is used to study a wide range of molecular interactions in pure or complex samples with no molecular weight limits.



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