Surface Plasmon Resonance Reimagined by Reichert

# Reichert4spr

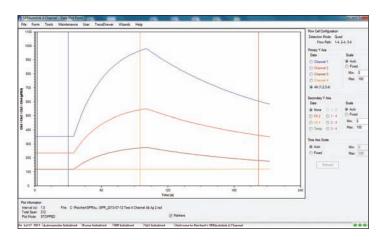
Take it for a test drive, see how it handles the curve



# Rechert 4 SPR NEW 4-Channel SPR System

**Reichert Life Sciences** introduces **Reichert4SPR**, the new 4-channel Surface Plasmon Resonance (SPR) system for label-free, real time investigation of biomolecular interactions. Unmatched sensitivity and baseline stability make **Reichert4SPR** the ideal system for both macromolecular and small molecule kinetic or concentration determination experiments.

The success of the **Reichert4SPR** 4-channel system is the culmination of Reichert's fifteen years of developing flexible, affordable, and extremely sensitive SPR systems. **Reichert4SPR** features the latest advancements in optics, image sensing, electronics and software.



## Reichert4SPR, extreme sensitivity and baseline stability

- +/- 0.05 µRIU rms noise perfect for analysis of small molecules or very low concentrations of larger biomolecules. High sensitivity reduces the required amount of sample and produces results even if a large portion of a protein population is inactive or denatured.
- Drift is less than 0.1 µRIU per minute ensuring quality data fits.
- Determine picomolar concentrations and equilibrium dissociation constants.

# Intuitive software allows for easy set-up and streamlined workflow

- Software designed with you in mind and how you run your experiment.
- Seamless data analysis software with multiple binding models and easy data comparison.
- Built in quality checks



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# Robust fluid handling system

- Run aggregates, precipitates or lysate samples
- Fluidics tubing is easy to access and easy to change
- Fewer clogs, fewer failed experiments

# Reichert4SPR provides more value than the leading competitor

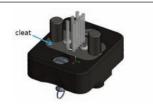
- Easy-to-access fluidics lowers operating and maintenance costs
- Reichert4SPR's five year total cost of ownership is 30% lower than leading competitor.

# Service and support from a team of expert application scientists ensure your success

- In-depth training
- Method development and consulting
- Maintenance and support



Nanoliter volume flow cell fluidic pathways



Flow cell body is pre-assembled with all fluidic connections in place.

### **Specifications**

### **Technical Information**

Measurement Channels Four

Sample Loading Autosampler. Up to 768 samples

Sample Volume 50 µL to 4500 µL (depends on installed loop volume)

Buffer Degasser Built in

Temperature Range 10°C below ambient to 70°C Sample Storage 4°C or ambient temperature

21 CFR Part 11 Compliant

### **Measurement Sensitivity**

 $\begin{array}{ll} \text{Baseline Noise} & 0.05 \ \mu\text{RIU RMS} \\ \\ \text{Baseline Drift} & < 0.1 \ \mu\text{RIU/min} \\ \\ \text{Minimum Molecular Weight Detection} & < 100 \ \text{Daltons} \end{array}$ 

# **Typical Kinetic and Equilibrium Constant Ranges**

Association Rate Constant  $10^3$  to  $10^8$  M $^{-1}$ s $^{-1}$  Dissociation Rate Constant  $10^{-1}$  to  $10^{-6}$  s $^{-1}$  Equilibrium Dissociation Constant mM to pM