

# SPRm 200 System Specifications

2/6/2017

Base Station	Light source	690 nm
	Incident angles	40-76 Deg (continuous)
	Baseline noise	< 0.6 RU RMS (0.1 mDeg RMS)
	Baseline drift	3 RU/hr (0.5 mDeg/hr) (when ambient drifts < 1°C/hr)
	Temperature Control Range	15°C to 40°C (10°C below ambient temperature max)
	Field of view	Bright Field: 1200 x 900 $\mu$ m SPR: 600 x 450 $\mu$ m
	Magnification	Bright Field: x10 SPR: x20
	Resolution	Bright Field & SPR: 1 $\mu$ m
	Stage translation / rotation	3mm x 3mm / 360 deg
	Outer dimension	690 (w) x 330 (h) x 340 (d) mm
	Weight	23 kg
	Power supply	110-230 V 50/60 Hz
	Fluid Handling	Sample volume
Kinetic constant		$k_a < 1 \times 10^7 \text{ M}^{-1} \text{ s}^{-1}$ $k_d > 1 \times 10^{-5} \text{ s}^{-1}$
Dissociation constant		$K_D = 10^{-3} \text{ M (1 mM) to } 10^{-12} \text{ M (1 pM)}$
Molecular weight cutoff		200 Da
Control System	Computer	Windows operating system
	Software	ImageSPR™ software including Data Analysis and Kinetics Analysis packages