

NS1 NanoSpectralyzer Specifications

Fluorescence excitation laser λ	532, 638, 671, and 785 nm (or customized)
Fluorescence geometry	High numerical aperture epifluorescence
Fluorescence spectral range	900-1600 nm
Near-infrared detector type	512 element TE-cooled InGaAs array
Absorption light source	Stabilized tungsten-halogen lamp
Absorption spectral range	410-1600 nm
Absorption spectral resolution	6 nm (NIR), 1 nm (vis)
Absorption ceiling	3 AU (NIR and vis)
Visible detector type	2048 pixel Si CCD
Absorbance noise (rms), NIR	$< 2 \times 10^{-4}$ AU at 0 AU for 10 s integration
Absorbance noise (rms), visible	$< 5 \times 10^{-4}$ AU at 0 AU for 10 s integration
Minimum sample volume	120 μ L (or 50 μ L optional)
Data acquisition time (typical)	2 minutes for full set of spectra
Power consumption	75 W (excluding computer)
Main Optical Module dimensions	12.3" W x 18.3" D x 7.7" H (310 x 465 x 195 mm)
System weight	48 lbs/22 kg (excluding computer)