

Ocean Optics NR Near Infrared (NIR) 2.2 Spectrometer

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+

A\$47,024^{.00}

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Product Downloads

General	
	Software:
OceanDirect & OceanView	
	Integration Time:
1 ms - 120 s	
	Model Number:
NR-512-2.2-25	
	Note:
Includes manual QR code, software QR code, calibration reports for wavelength and linearity, USB Type-A to Type-C cable, +5VDC Power Supply, standard 15-pin accessory cable	

SMA905	Input Port Termination:
Ruled Diffraction Grating: 95 Grooves/mm Blazed @ 1300nm	Grating:
Cross Czerny Turner	Optical Bench:
Physical & Mechanical Properties	
25	Slit Width (µm):
1.17	Weight (kg):
182.25 x 109.19 x 46.45	Dimensions (mm):
Optical Properties	
4.8	Spectral Resolution (nm):
900 - 2190	Wavelength Range (nm):
Sensor	
CCD	Type of Sensor:
Electrical	
Single Scan @ 10 ms: 9700:1	Signal to Noise S/N Ratio:
Hardware & Interface Connectivity	
USB, RS-232	Computer Interface:
Threading & Mounting	
(3) 4-40	Mounting Threads:
Environmental & Durability Factors	
+10 to +35	Operating Temperature (°C):
-30 to +70	Storage Temperature (°C):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:

Product Details

- High Sensitivity for Low-Signal and Complex-Matrix Measurements
- High-Speed Measurements From 900nm Up to 2500nm
- Increased Thermal Stability

Ocean Optics NR Near Infrared (NIR) Spectrometers are engineered for high-sensitivity detection of low-signal and complex-matrix samples, delivering high signal-to-noise ratios across the NIR spectral range up to 2500nm. Optimized optical throughput and configurable integration times enable accurate measurement of weak absorbance and reflectance features in low-concentration analyses. Thermoelectrically stabilized InGaAs detectors with high-gain configurations reduce system noise and enhance signal strength, enabling stable, repeatable, high-sensitivity measurements. Ocean Optics NR Near Infrared (NIR) Spectrometers' high-speed acquisition rates enable rapid spectral capture for time-resolved analysis, in-line process monitoring, and high-throughput measurement environments. These spectrometers are ideal for quantitative moisture analysis, polymer or petrochemical characterization, and pharmaceutical process and quality control.