

# Ocean Optics Near Infrared (NIR) NR 2.2 Spectrometer

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Stock #90-952 NEW CONTACT US

⊖ 1 ⊕ £24,981<sup>00</sup>

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## Product Downloads

### General

OceanDirect & OceanView **Software:**

1 ms - 120 s **Integration Time:**

NR-512-2.2-25 **Model Number:**

**Note:**  
Includes manual QR code, software QR code, calibration reports for wavelength and linearity, USB cable, Power Supply, 15-pin accessory cable

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

## Product Details

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

Ocean Optics Near Infrared (NIR) NR 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 Near Infrared (NIR) NR 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.