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Ocean Optics NR Near Infrared (NIR) 2.5 Spectrometer

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Stock #90-953 NEW CONTACT US

⊖ 1 ⊕ **S\$45,660⁰⁰**

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Qty 1+	S\$45,660.50 each
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Product Downloads

General

Software:
OceanDirect & OceanView

Integration Time:
1 ms - 120 s

Model Number:
NR-512-2.5-25

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:**

Grating:
Ruled Diffraction Grating: 78 Grooves/mm
Blazed @ 1300nm

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

6.5 **Spectral Resolution (nm):**

900 - 2450 **Wavelength Range (nm):**

Sensor

CCD **Type of Sensor:**

Electrical

Single Scan @ 10 ms: 7200:1 **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

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

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.