

Ocean Optics Near Infrared (NIR) NR 1.7 Spectrometer

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Stock #90-951 NEW CONTACT US

⊖ 1 ⊕ **SS\$22,460⁰⁰**

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Volume Pricing

Qty 1+	SS\$22,460.50 each
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Product Downloads

General

OceanDirect & OceanView

Software:

1 ms - 120 s

Integration Time:

NR-512-1.7-25

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

Input Port Termination:

Grating:

Ruled Diffraction Grating: 150 Grooves/mm
Blazed @ 1100nm

Optical Bench:

Cross Czerny Turner

Physical & Mechanical Properties

Slit Width (µm):

25

Weight (kg):

1.17

Dimensions (mm):

182.25 x 109.19 x 46.45

Optical Properties

Spectral Resolution (nm):

2.85

Wavelength Range (nm):

900 - 1650

Sensor

Type of Sensor:

CCD

Electrical

Signal to Noise S/N Ratio:

Single Scan @ 10 ms: 10000:1

Hardware & Interface Connectivity

Computer Interface:

USB, RS-232

Threading & Mounting

Mounting Threads:

(3) 4-40

Environmental & Durability Factors

Operating Temperature (°C):

+10 to +35

Storage Temperature (°C):

-30 to +70

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 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.