

# Ocean Optics Near Infrared (NIR) NR 1.7 Spectrometer

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MRP ₹15,90,203

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## Product Downloads

### General

Software: OceanDirect & OceanView

Integration Time: 1 ms - 120 s

Model Number: NR-512-1.7-25

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](#)

**Country of Origin:**

United States

**Imported By:**

Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
Phone: +91- 80-6845 0000

## 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.