See all 11 Products in Family

# Ocean Optics Near Infrared (NIR) NR 1.7 Spectrometer

See More by Ocean Optics


Stock **#90-951** NEW CONTACT US

- 1 +  **€15.490**,00

**ADD TO CART**

| Volume Pricing | |
|---|---|
| Qty 1+ | **€15.490,00** each |
| Need More? | Request Quote |

Prices shown are exclusive of VAT/local taxes

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

**Input Port Termination:**
SMA 905

**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.

;