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Ocean Optics Near Infrared (NIR) NR 2.5 Spectrometer

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- 1 + MRP ₹32,32,763

Price inclusive of all taxes

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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 cable, Power Supply, 15-pin accessory cable

Input Port Termination:
SMA 905

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

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):
6.5

Wavelength Range (nm):
900 - 2450

Sensor

Type of Sensor:
CCD

Electrical

Signal to Noise S/N Ratio:
Single Scan @ 10 ms: 7200:1

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
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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.

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