

Ocean Optics HR4 VIS-NIR High Resolution Spectrometer

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+

S\$8,489⁶⁰

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SPECIFICATIONS

General

OceanDirect & OceanView

Software:

3.8 ms – 10 s

Integration Time:

HR-4VIS500-25

Model Number:

Note: Includes manual QR code, software QR code, calibration reports for wavelength and linearity, 1 m USB cable	
Input Port Termination: SMA 905	
Grating: Ruled Diffraction Grating: 600 Grooves/mm, Blazed @ 500nm	
Optical Bench: Cross Czerny Turner	
Physical & Mechanical Properties	
Slit Width (µm): 25	
Weight (kg): 0.9306	
Dimensions (mm): 149.0 x 106.4 x 48.2	
Optical Properties	
Spectral Resolution (nm): 0.57	
Wavelength Range (nm): 400 - 850	
Sensor	
Type of Sensor: CCD	
Electrical	
Signal to Noise S/N Ratio: Single Scan @ 10 ms: 250:1 Max per second with High Speed Averaging Mode: 3000:1	
Hardware & Interface Connectivity	
Computer Interface: USB, RS-232	
Threading & Mounting	
Mounting Threads: (3) 2-56	
Environmental & Durability Factors	
Operating Temperature (°C): 0 to +55	
Storage Temperature (°C): -30 to +70	
Thermal Stability: 0.02 nm/°C	
Regulatory Compliance	
RoHS 2015: Compliant	
Certificate of Conformance: View	
Reach 250: Compliant	

PRODUCT DETAILS

- High Resolution Spectrometers for Narrow Peak Identification
- Spectral Ranges Spanning UV-VIS, VIS-NIR, and NIR Wavelengths
- Rapid Acquisition Speed and Excellent Thermal Stability

Ocean Optics HR High Resolution Spectrometers, available in HR2, HR4, and HR6 models, are designed to identify narrow spectral peaks with detailed spectral analysis for applications that require high-resolution solutions. The HR2 spectrometers feature high-resolution performance, fast scan speeds, and excellent thermal stability, providing rapid, real-time results ideal for applications such as plasma monitoring and pharmaceutical analysis. The HR4 spectrometers combine high-resolution spectral analysis with excellent thermal stability, making these models excel in precision-demanding environments such as DNA/RNA analysis, biomedical research, and high-throughput reflection testing. The HR6 spectrometers offer high sensitivity, high resolution, and excellent signal-to-noise ratio (SNR) performance for applications including protein absorbance and emission of broadband sources. The Ocean Optics HR High Resolution Spectrometers include the user-friendly OceanView software system to optimize spectrometer performance, ease system integration, and access data for analysis.