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Ocean Optics HR4 VIS-NIR High Resolution Spectrometer

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Product Downloads

General

Software:
OceanDirect & OceanView

Integration Time:
3.8 ms – 10 s

Model Number:
HR-4VIS500-25

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.

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