

# Ocean Optics SR4 VIS-NIR Versatile Spectrometer

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**General**

OceanDirect & OceanView **Software:**

3.8 ms – 2 s **Integration Time:**

SR-4VN500-25 **Model Number:**

**Note:**  
Includes manual QR code, software QR code, calibration reports for wavelength and linearity, 1 m USB cable

**Input Port Termination:**  
SMA905

**Grating:**  
Ruled Diffraction Grating: 600 Grooves/mm, Blazed @ 500nm

**Optical Bench:**  
Cross Czerny Turner

## Physical & Mechanical Properties

**Slit Width (µm):**  
25

**Weight (kg):**  
0.275

**Dimensions (mm):**  
88.1 x 63.5 x 31.45

## Optical Properties

**Spectral Resolution (nm):**  
1.65

**Wavelength Range (nm):**  
350 - 1040

## 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) 4-40

## Environmental & Durability Factors

**Operating Temperature (°C):**  
0 to +55

**Storage Temperature (°C):**  
-30 to +70

**Thermal Stability:**  
0.05 Pixel/°C

## Regulatory Compliance

**RoHS 2015:**  
[Compliant](#)

**Certificate of Conformance:**  
[View](#)

**Reach 250:**  
[Compliant](#)

## Product Details

- Compact Design and Powerful Performance
- Broad Wavelength Range Options Spanning 180 - 1040nm
- Three Models Available for a Diverse Range of Applications

Ocean Optics SR Versatile Spectrometers are available in S2, S4, and S6 models, each of which offers high performance and broad spectral coverage to suit a diverse set of applications. SR2 spectrometers are optimized for fast spectral acquisition and high signal-to-noise ratio (SNR), making them ideal for applications such as laser characterization, plasma monitoring, and absorbance concentration. The SR4 spectrometers present superior thermal wavelength stability, low-noise CCD detection, and consistent high signal-to-noise performance, perfect for plasma monitoring and reflection measurements. High-sensitivity SR6 models provide exceptional SNR and UV response, supporting applications such as UV absorbance, fluorescence, and plasma diagnostics. The Ocean Optics SR Versatile Spectrometers include the user-friendly OceanView software system to optimize spectrometer performance, ease system integration, and access data for analysis.