

Specifications

1. Spectrometer:

Spectral range: 900 nm - 1700 nm.
Resolution, @ 25 μm slit: 5 nm; @50 μm slit: 6 nm.
Aperture F/#: 1.3.
Fiber port: SMA 905,
Grating type: transmissive Volume Phase Holographic (VPH) grating.
Spectrograph configuration: Transmission Littrow Configuration.
Detector material/type: InGaAs array.
Active pixels: 512.
Pixel Size 25 x 500 μm .
Integration period range: 1 ms – 60 s.
Detector Photosensitivity (Average, Peak): 0.80 A/W, 0.97 A/W.
Dynamic Range: 16,666.
Signal to Noise (SNR): 15000:1.
Readout Noise: 180 e- RMS.
Integration Time: 1 ms - 60 s.
Detector Thermoelectrically cooled (TEC).
Detector Temperature: -15°C.
Detector temperature stability: ± 0.1 °C.
System operating temperature range: 0°C to 40°C, non-condensing.
Stray light <0.001%
Lens coating: AR-coated.
Data interface and communication: USB.
Dimensions: up to 20 x 15 x 7 cm.
Weight: up to 1.5kg.
Included control software

2. Fiber-optic cable:

Spectral range: NIR

Length: 1m

Connector (input/output): SMA-905/SMA-905

Numerical aperture: 0.39 NA

Core diameter: 400 um

Jacket: metal

3. Cuvette

Cuvette holder for spectrophotometry 10 mm cuvettes, including:

Lid to prevent ambient light;

Direct attach for high throughput;

Dual filter slot;

Ball springs for reproducible cuvette location;

Emission and excitation fiber connector.

Delivery time: no more than 56 days