

SVC HR-768

Spectral Range 350-2500 nm
Internal Memory 500 scans
Channels 768
Linear Array (1) 512 Si, 350-1000 nm
 (1) 128 InGaAs, 1000-1890 nm
 (1) 128 Extended InGaAs, 1890-2500 nm

Spectral Resolution (FWHM) ≤ 3.5 nm @ 700 nm
 ≤ 16 nm @ 1500 nm
 ≤ 14 nm @ 2100 nm

Bandwidth (nominal) ≤ 1.5 nm, 350-1000 nm
 ≤ 7.5 nm, 1000-1890 nm
 ≤ 5 nm, 1890-2500 nm

Minimum Integration 1 millisecond

FOV 4° standard, 8° or 14° optional
 25° optional fiber optic

Head Size 8.5" x 11.5" x 3.25"
 22 cm x 29 cm x 8 cm

Weight 7.3 lbs., 3.3 kg
Battery Type 7.4 V lithium ion
Battery Life 3 hours
Digitization 16 bit
Wavelength Repeatability 0.1 nm

Maximum Radiance 1.3×10^{-4} W/cm²/nm/sr @ 700 nm

Noise Equivalent Radiance (1.0 sec scan) $\leq 1.2 \times 10^{-9}$ W/cm²/nm/sr @ 400 nm
 $\leq 2.2 \times 10^{-9}$ W/cm²/nm/sr @ 1500 nm
 $\leq 2.2 \times 10^{-9}$ W/cm²/nm/sr @ 2100 nm

Radiometric Calibration Accuracy (NIST Traceable) $\pm 5\%$ @ 400 nm
 $\pm 4\%$ @ 700 nm
 $\pm 7\%$ @ 2200 nm

Dark Current Correction automatic /selectable
Spectrum Averaging selectable

Operating Environment
Humidity to 90% RH, non-condensing
Temperature -10° to +40° C
Sighting diode laser

Specifications are subject to change without notice



STAND-ALONE INSTRUMENT CONTROL PANEL

Features

- Precise spectral measurements across the 350 nm to 2500 nm spectral range are acquired in seconds. Small and lightweight & easily operated by one person
- Incorporates 100% linear array technology and cooled InGaAs detectors, providing superior wavelength and radiometric stability
- Leading edge detector arrays provide superior NER and low noise data
- Fixed foreoptics ensure a rugged and reliable optical path
- Critical optical components are hard mounted to the spectrometer platform
- Fast, full spectrum measurements are made with no moving gratings
- Internal CPU allows measurements to be made without an external computer
- Designed for minimal set-up & warm-up time
- Internal memory stores a full day's data
- Supplied with rugged PDA with Bluetooth wireless & GPS
- Wireless communication facilitates canopy measurements
- Field-changeable fiber optic light guide options are available
- Integral, removable Lithium Ion battery reduces weight and enhances mobility
- Reflectance Probes and Cosine Receptors available
- Data is provided by channel in columnar format. Software tools are provided for resampling

Applications

- Vegetative Stress Analysis
- Forestry Analysis
- Land and Crop Management
- Marine and Wetland Studies
- Environmental Monitoring
- Geological Studies
- Mineral Identification
- Drilling Core Analysis
- Ground Truthing
- Industrial QC and Process Control
- Surface Color Measurements



WATERTIGHT FIELD CASE

