

# SVC HR-1024

**Spectral Range** 350-2500 nm  
**Internal Memory** 500 scans  
**Channels** 1024  
**Linear Array** (1) 512 Si, 350-1000 nm  
 (1) 256 InGaAs, 1000-1890 nm  
 (1) 256 Extended InGaAs, 1890-2500 nm

**Spectral Resolution (FWHM)**  $\leq 3.5$  nm, 700 nm  
 $\leq 9.5$  nm, 1500 nm  
 $\leq 6.5$  nm, 2100 nm

**Bandwidth (nominal)**  $\leq 1.5$  nm, 350-1000 nm  
 $\leq 3.8$  nm, 1000-1890 nm  
 $\leq 2.5$  nm, 1890-2500 nm

**Minimum Integration** 1 millisecond

**FOV** 4° standard, 8° or 14° optional  
 25° optional armored 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**  $1.3 \times 10^{-4}$  W/cm<sup>2</sup>/nm/sr @ 700 nm

**Noise Equivalent Radiance (1.0 sec scan)**  $\leq 8.0 \times 10^{-10}$  W/cm<sup>2</sup>/nm/sr @ 700 nm  
 $\leq 1.5 \times 10^{-9}$  W/cm<sup>2</sup>/nm/sr @ 1500 nm  
 $\leq 3.0 \times 10^{-9}$  W/cm<sup>2</sup>/nm/sr @ 2100 nm

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

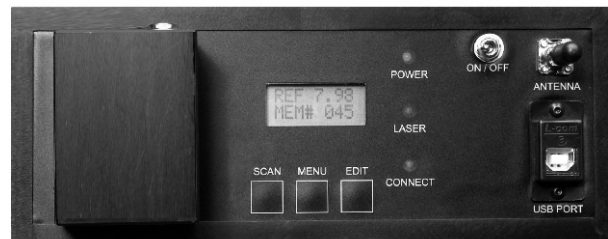
**Dark Current Correction** automatic /selectable  
**Spectrum Averaging** selectable

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

Specifications are subject to change without notice



**WATERTIGHT  
FIELD CASE**



**STAND-ALONE INSTRUMENT CONTROL PANEL**

## Features

- One half the size and weight of other field spectroradiometers
- Provides the highest spectral resolution operating across the full spectral region
- Incorporates 100% linear array technology and cooled InGaAs detectors thus providing superior wavelength and radiometric stability
- State of the art linear arrays provide the best NER (lowest noise) across the 350 nm to 2500 nm range
- Fixed foreoptics ensure a reliable optical path. Critical optical components are hard mounted to the spectrometer platform
- Provides fast, full spectral measurements with no moving gratings
- Internal CPU allows measurements to be made without an external computer
- Full spectral measurements can be acquired in 1 second
- Designed for minimal set-up & warmup time
- Internal memory stores a full day's data
- Supplied with rugged PDA / Bluetooth for wireless operation, GPS and data display
- Field-changeable fiber optic light guide options
- Integral, removable Lithium Ion battery enhances mobility (no power cord)
- Optional Reflectance Probe, Cosine Receptors, Back Pack etc. available

## 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

