

SVC XHR-1024I TM

Spectral Range 350-2500 nm
Internal Memory 1000 scans
Channels 1024, 2000+ resampled
Linear Array (1) 512 Si, 350-1000 nm
 (1) 256 InGaAs, 1000-1900 nm
 (1) 256 Extended InGaAs, 1900-2500 nm

Spectral Resolution (FWHM) 2.8 nm, 700 nm
 8.0 nm, 1500 nm
 6.0 nm, 2100 nm

Bandwidth (nominal) 1.5 nm, 350-1000 nm
 3.8 nm, 1000-1900 nm
 2.5 nm, 1900-2500 nm

Minimum Integration 1 millisecond

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

Head Size 8.75" x 11.5" x 3.0"
 22 cm x 29 cm x 8 cm

Weight 8.5 lbs., 3.8 kg
Battery Type 7.4 V lithium ion

Battery Life 3 hours approx.

Digitization 16 bit

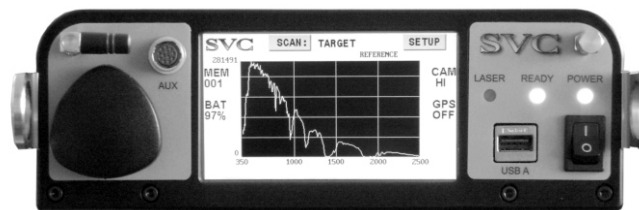
Wavelength Repeatability 0.1 nm

Noise Equivalent Radiance 0.8 x 10⁻⁹ W/cm²/nm/sr @ 700 nm
 1.2 x 10⁻⁹ W/cm²/nm/sr @ 1500 nm
 1.8 x 10⁻⁹ W/cm²/nm/sr @ 2100 nm

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

Dark Current Correction automatic
Spectrum Averaging automatic / selectable

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



STAND-ALONE INSTRUMENT CONTROL PANEL

Features

- Provides enhanced high spectral resolution operating across the full spectral region
- Fixed foreoptics ensure a reliable optical path
- Internal digital camera captures scene of target area
- Internal GPS provides time and location coordinates for each data file
- QVGA sunlight readable touch screen provides graphic data display
- Dedicated Bluetooth receives data from 16 channel optional sensor suite
- One half the size and weight of other field spectroradiometers
- Critical optical components are hard mounted to the spectrometer platform
- Full spectral measurements can be acquired in 1 second
- Incorporates 100% linear array technology and cooled InGaAs detectors thus providing superior wavelength and radiometric stability
- State of the art linear arrays provide low noise (improved data) across the 350 nm to 2500 nm range
- Provides fast, full spectral measurements with no moving gratings
- Internal 32-bit 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 / Bluetooth for wireless operation
- Field-changeable fiber optic light guide options available
- Integral, removable Lithium Ion battery enhances mobility (no power cord)
- Optional Foreoptics, Fiber Optic Light Guides, Reflectance Probe, Cosine Receptors, Back Pack, Reflectance Panels, Spheres, and Computers are 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



**WATERTIGHT
FIELD CASE**

