# SPECTRAL EVOLUTION

## A Range of Field Spectroradiometers for Remote Sensing

| | SR-6500 | RS-5400 | RS-8800 | PSR+ | RS-3500 |
|---|---|---|---|---|---|
| Spectral Range | 350–2500nm | 350-2500nm | 350-2500nm | 350-2500nmn | 350-2500nm |
| Spectral Resolution | 1.5nm @ 700nm<br>3.0nm @ 1500nm<br>3.8nm @ 2100nm | 2.7nm @ 700nm<br>5.5nm @ 1500nm<br>5.8nm @ 2100nm | 2.8nm @ 700nm<br>8nm @ 1500nm<br>6nm @ 2100nm | 2.8nm @ 700nm<br>8nm @ 1500nm<br>6nm @ 2100nm | 2.8nm @ 700nm<br>8nm @ 1500nm<br>6nm @ 2100nm |
| Si Photodiode Detector | 1024 element TE-cooled Si array (350-1000nm) | 1024 element enhanced Si array (350-1000nm) | 512 element Si array (350-1000nm) | 512 element Si array (350-1000nm) | 512 element Si array (350-1000nm) |
| InGaAs Photodiode Detectors (TE-cooled) | 512 element TE-cooled InGaAs array (1000-1600nm) | 512 element TE-cooled InGaAs array (1000-1600nm) | 256 element extended wave-length array (1000-1900nm) | 256 element extended wave-length array (1000-1900nm) | 256 element extended wave-length array (1000-1900nm) |
| | 512 element TE-cooled extended InGaAs array (1600-2500nm) | 512 element TE-cooled extended InGaAs array (1600-2500nm) | 256 element extended wave-length array (1900-2500nm) | 256 element extended wave-length array (1900-2500nm) | 256 element extended wave-length array (1900-2500nm) |
| Sensitivity Noise Equivalence Radiance (NER) | 0.8x10$^{-9}$W/cm$^2$/nm/sr@400nm<br>0.3x10$^{-9}$W/cm$^2$/nm/sr@1500nm<br>5.8x10$^{-9}$W/cm$^2$/nm/sr@2100nm | 0.3x10$^{-9}$W/cm$^2$/nm/sr@700nm<br>0.1x10$^{-9}$W/cm$^2$/nm/sr@1500nm<br>2.5x10$^{-9}$W/cm$^2$/nm/sr@2100nm | 0.8x10$^{-9}$W/cm$^2$/nm/sr@400nm<br>1.2x10$^{-9}$W/cm$^2$/nm/sr@1500nm<br>1.8x10$^{-9}$W/cm$^2$/nm/sr@2100nm | 0.5x10$^{-9}$W/cm$^2$/nm/sr@400nm<br>0.8x10$^{-9}$W/cm$^2$/nm/sr@1500nm<br>1.0x10$^{-9}$W/cm$^2$/nm/sr@2100nm | 0.8x10$^{-9}$W/cm$^2$/nm/sr@400nm<br>1.2x10$^{-9}$W/cm$^2$/nm/sr@1500nm<br>1.8x10$^{-9}$W/cm$^2$/nm/sr@2100nm |

**SR-6500**— ultra-high resolution field portable spectroradiometer for analyzing the finest spectral features. Use with our Miniprobe and ILM-660 for soil analysis and mineral identification; use our unique leaf clip for vegetation studies. Available with a range of fiber mount Field of View lenses.

**RS-5400**— high resolution field portable spectroradiometer for *in situ* measurements with high resolution and sensitivity. Use with our contact probe and Miniprobe or benchtop probe for soil analysis; use our unique leaf clip for vegetation studies. Available with a range of fiber mount Field of View lenses.

**RS-8800**—high resolution spectroradiometer controlled via iPhone, Android device or tablet. Used with *Sensa/Tilt* pistol grip to provide real-time accurate measurements of scan angle, sun angle, distance from target and real-time target viewing so users of every experience level can scan at nadir for more accurate measurements.

**PSR+** — high resolution/high sensitivity field portable spectroradiometer with both direct attached lenses and fiber mount FOV options. Rugged and reliable construction for field use. Operate in standalone mode with built-in LCD display and memory to store up to 1000 scans. Highest sensitivity of our spectroradiometers.

**RS-3500**— high resolution budget-friendly field spectroradiometer for a range of remote sensing applications. Available with accessories as a remote sensing bundle.

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