REMOTE SENSING SERIES TECHNICAL SPECIFICATIONS

Model	PSR-1100[f]	RS-3500			PSR+			NaturaSpec™			RS-8800		
													
	• Smallest full-featured portable instrument • Spectral range is ideal for vegetation analysis • Internal memory & onboard controls - no need for external PC to operate • Tripod mountable	• Tried and true full-range model • Standard spectral resolution • Lightweight and portable for field research			• Lightest, most portable full-range instrument • Internal memory & onboard controls - no need for external PC to operate • Option for direct attach lense or fiber optic • Tripod mountable			• Best signal to noise compromise in a field instrument • High resolution & sensitivity • Better quality data - especially from dark samples			• Built-in computer with IoT operating system to control instrument with smartphone • See field of view in real-time & record essential metadata with exclusive accessory *Sensaprobe*™		
Spectral Range	320-1100nm	350-2500nm			350-2500nm			350-2500nm			350-2500nm		
Spectral Resolution	3.0nm @ 600nm	2.8nm @ 700nm	8nm @ 1500nm	6nm @ 2100nm	2.8nm @ 700nm	8nm @ 1500nm	6nm @ 2100nm	2.7nm @ 700nm	5.5nm @ 1500nm	5.8nm @ 2100nm	3nm @ 700nm	8nm @ 1500nm	6nm @ 2100nm
Spectral Sampling Bandwidth (nm)	1.5 @ 600nm	1.3 @ 700nm	3.5 @ 1500nm	2.3 @ 2100nm	1.3 @ 700nm	3.5 @ 1500nm	2.3 @ 2100nm	0.6 @ 700nm	1.7 @ 1500nm	1.2 @ 2100nm	1.3 @ 700nm	3.5 @ 1500nm	2.3 @ 2100nm
Detector(s)	512-element Si Array	512-element Si Array Two 256-element TE-cooled InGaAs Arrays			512-element Si Array Two 256-element TE-cooled InGaAs Arrays			1024-element UV-enhanced Si Array 512-element TE-cooled InGaAs Array 512-element extended TE-cooled InGaAs Arrays			512-element Si Array Two 256-element TE-cooled InGaAs Arrays		
Calibration	Factory calibrated for radiance/irradiance using NIST traceable sources (depending upon optics selection)												
Noise Equivalence Radiance W/cm²/nm/sr (1.2m fiber optic)	0.8×10^{-9} @ 700nm	0.8×10^{-9} @ 400nm	1.2×10^{-9} @ 1500nm	1.8×10^{-9} @ 2100nm	0.5×10^{-9} @ 400nm	0.8×10^{-9} @ 1500nm	1.0×10^{-9} @ 2100nm	0.3×10^{-9} @ 400nm	0.1×10^{-9} @ 1500nm	2.5×10^{-9} @ 2100nm	0.8×10^{-9} @ 400nm	1.2×10^{-9} @ 1500nm	1.8×10^{-9} @ 2100nm
Sofware Included	DARWin™ SP Data Acquisition	DARWin™ SP Data Acquisition			DARWin™ SP Data Acquisition			DARWin™ SP Data Acquisition			DARWin™ SP Data Acquisition		
Power	7.5V, 5W	7.5V, 22.5W			7.5V, 22.5W			7.4V, 28W			7.5V, 22.5W		
Dimensions (in/mm)	7 x 3.3 x 5.8/ 177.8 x 82.5 x 147.3	8.5 x 12 x 3.5/ 215.9 x 304.8 x 88.9			8.5 x 11.5 x 3.3/ 215.9 x 292.1 x 82.5			12.4 x 8.7 x 4.4/ 314.9 x 220.9 x 111.7			12.4 x 9 x 15/ 314.9 x 228.6 x 381		
Weight (lbs/kg)	4/1.8	8.9/4			7.9/3.5			12.6/5.7			9.4/4.2		
Interface	USB, Bluetooth	USB, Bluetooth			USB, Bluetooth			USB, Bluetooth			USB, Bluetooth		
Minimum Scan Speed	100ms	100ms			100ms			100ms			100ms		
Wavelength Reproducibility (nm)	0.1	0.1			0.1			0.1			0.1		
Wavelength Accuracy (nm)	±0.5 bandwidth	±0.5 bandwidth			±0.5 bandwidth			±0.5 bandwidth			±0.5 bandwidth		
Automatic Exposure	✔	✔			✔			✔			✔		
Automatic Shutter for Dark Scans	✔	✔			✔			✔			✔		
Onboard Storage	✔ 2500 Scans	⊖			✔ 1000 Scans			⊖			✔ Integrated Computer		

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