

LabSpec⁴

LabSpec ⁴ Instrument Details	LabSpec 4 Hi-Res	LabSpec 4 Standard-Res	LabSpec 4 Bench
Spectral range	350 – 2500 nm	350 – 2500 nm	350 – 2500 nm
Resolution	3 nm @ 700 nm 6 nm @ 1400/2100 nm	3 nm @ 700 nm 10 nm @ 1400/2100 nm	3 nm @ 700 nm 10 nm @ 1400/2100 nm
Weight	5.44 kg (12 lbs)	5.44 kg (12 lbs)	6.8 kg (15 lbs)
Integrated light source	Lamp 10 VDC, 18.6 W (optional)	Lamp 10 VDC, 18.6 W (optional)	Not available
Wireless	802.11g/n	802.11g/n	Not available
Portable	Yes	Yes	Stationary
Power	AC/DC or battery	AC/DC or battery	AC/DC
Signal-to-noise ratio	VNIR 9,000:1 @ 700 nm SWIR 1 9,000:1 @ 1400 nm SWIR 2 4,000:1 @ 2100 nm		
Photometric noise	VNIR 4.8 x 10 ⁻⁵ AU or 48 μAU@ 700 nm SWIR 1 4.8 x 10 ⁻⁵ AU or 48 μAU@ 1400 nm SWIR 2 1.1 x 10 ⁻⁴ AU or 110 μAU@ 2100 nm		
Spectral sampling (bandwidth)	1.4 nm @ 350-1000 nm 1.1 nm @1001-2500 nm		
Scanning time	100 milliseconds		
Wavelength reproducibility	0.1 nm		
Wavelength accuracy	0.5 nm		
Channels	2151		
Detectors	VNIR detector (350-1000 nm) 512 element silicon array SWIR 1 detector (1001-1800 nm) graded index InGaAs photodiode, two stage TE cooled SWIR 2 detector (1801-2500 nm) graded index InGaAs photodiode, two stage TE cooled		
Certifications	CE certified: EN61010-1:2001 2nd Edition, EN61326-1:2006 EU Directive: 2006/95/EC, 2004/108/EC NIST traceable calibration 21 CFR, Part 11, Installed per customer request USP 1119, Installed per customer request and purchase of applicable USP Standards		
Computer	Windows [®] 7 64-bit laptop (instrument controller)		
Warranty	One year full warranty including expert customer support		

