



FieldSpec4 vs reveNIR Comparison Chart

Feature	FieldSpec 4	ReveNIR
Best Choice For	Maximum spectral quality and research-grade measurements	Fast, portable field analysis and mineral identification
Use Style	Backpack or benchtop	Handheld and lightweight
Spectral Power	Exceptional — high resolution, excellent signal-to-noise	Excellent — optimized for field use
Measurement Type	Non-contact	Contact
Special Capabilities	Radiance & Irradiance measurements	Mineral Matching with built-in libraries
Ease of Use	Advanced, requires laptop	Simple, app-based operation
Field Ready	Portable, but not handheld	Fully handheld with hot-swap batteries
Connectivity	Offline	Cloud-connected with GPS and cameras
Ideal For	Remote sensing, lab work, research	Mining, agriculture, on-site analysis
Delivery	4-5 weeks after order	Typically faster
Real-World Examples	Used for NDVI, water studies, remote sensing	Used for mineral matching in exploration

Feature	FieldSpec 4	ReveNIR
Wavelength Range	Spectral Range: 350-2500 nm	Spectral Range: 350-2500 nm
Spectral Resolution (Standard-Res)	3nm @ 700 nm 10 nm @ 1400 nm 10 nm @2100 nm	VNIR: 1.5 nm spectral average SWIR1 and SWIR2: ≤ 8 nm spectral average
Wavelength Accuracy	± 0.5 nm (average error of wavelength calibration fit; ± 1.0 nm for any one line)	VNIR: 0.5 nm SWIR 1: 2.7 nm SWIR 2: 2.7 nm
VNIR detector	512 element silicon array (350-1000 nm)	CCD array – 2500 pixels (350-975 nm)
SWIR1 detector	InGaAs photodiode, TE cooled (1001-1800 nm)	Standard InGaAs – 256 pixels (976-1690 nm)
SWIR2 detector	InGaAs photodiode, TE cooled (1801-2500 nm)	Extended InGaAs – 256 pixels (1691 -2500 nm)
Signal to Noise Ratio	VNIR: 13000:1 SWIR 1 6900:1 SWIR 2: 2600:1	VNIR: 525:1 SWIR 1 1100:1 SWIR 2: 1300:1
Scanning Time	100 milliseconds	100 milliseconds

