



## FieldSpec4 vs reveNIR Comparison Chart

| Feature                     | FieldSpec 4                                              | ReveNIR                                                  |
|-----------------------------|----------------------------------------------------------|----------------------------------------------------------|
| <b>Best Choice For</b>      | Maximum spectral quality and research-grade measurements | Fast, portable field analysis and mineral identification |
| <b>Use Style</b>            | Backpack or benchtop                                     | Handheld and lightweight                                 |
| <b>Spectral Power</b>       | Exceptional — high resolution, excellent signal-to-noise | Excellent — optimized for field use                      |
| <b>Measurement Type</b>     | Non-contact                                              | Contact                                                  |
| <b>Special Capabilities</b> | Radiance & Irradiance measurements                       | Mineral Matching with built-in libraries                 |
| <b>Ease of Use</b>          | Advanced, requires laptop                                | Simple, app-based operation                              |
| <b>Field Ready</b>          | Portable, but not handheld                               | Fully handheld with hot-swap batteries                   |
| <b>Connectivity</b>         | Offline                                                  | Cloud-connected with GPS and cameras                     |
| <b>Ideal For</b>            | Remote sensing, lab work, research                       | Mining, agriculture, on-site analysis                    |
| <b>Delivery</b>             | 6-8 weeks after order                                    | Typically faster                                         |
| <b>Real-World Examples</b>  | Used for NDVI, water studies, remote sensing             | Used for mineral matching in exploration                 |

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

