

FieldSpec® 3

Hi-Res

From the World Leader in Field Spectroscopy

- **Wireless / Ethernet Connectivity**
- **Rugged and Durable**
- **Compact, Lightweight, Expanded Flexibility**



FieldSpec® 3 — all the power and performance of the benchmark FieldSpec® Pro, times three!

Developed in cooperation with the United States Geological Survey – the wireless interface and LabVIEW® drivers expand the power and capabilities of our updated RS3™ software, enabling automation of data collection and ease of use for a wide variety of applications. The wireless interface allows for remote control of your data collection up to 150 feet away.



Built to handle intense shock and vibration, as well as temperature extremes, the FieldSpec® 3 Hi-Res now provides an unprecedented diagnostic package featuring the ASD FiberChecker™. With non-slip rubber feet for integration into custom transport platforms and the improved ergonomic backpack, the FieldSpec® 3 Hi-Res is ready for the field, mountains, the desert, the arctic, or just about anywhere your application takes you. With exceptional portability and flexibility, the FieldSpec® 3 Hi-Res allows you to collect more data from more sites in less time.

Designed to collect solar reflectance, radiance and irradiance measurements, FieldSpec® 3 Hi-Res is ideal for applications in remote sensing, geology, soil applications, and many more.



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FieldSpec® 3 Hi Res Specifications

Accurate and Precise

- 350-2500nm spectral range
- Resolution of 3 nm @ 700 nm, 8.5 nm @1400 nm, and 6.5 nm @ 2100 nm (1.4 nm and 2 nm sampling intervals)
- Post dispersive system for extremely low stray light < 0.02% from 350 - 1000 nm < 0.1% from 1000 - 2500 nm
- Modular Silicon Array and 2 Peltier cooled InGaAs detector spectrometer platform
- Superior repeatability of results for better discrimination and analysis
- ASD proprietary DriftLock™ for maximum stability
- 10 spectra per second data collection for the entire 350-2500 nm range
- Standard 25° field of view

Low Noise Equivalent Delta Radiance (NeDL)

- UV/VNIR — 1.4×10^{-9} W/cm²/sr/nm @ 700nm
- NIR — 4.9×10^{-9} W/cm²/sr/nm @ 1400nm
- NIR — 1.8×10^{-8} W/cm²/sr/nm @ 2100nm

Communications Interface

- 10/100Base T Ethernet connectivity
- Wireless 802.11 (Wi-Fi) for up to 150' (46m)
- LabVIEW® drivers for streamlined automated data collection

Rugged, Reliable and Portable

- Expanded built-in diagnostics (ASD FiberChecker™, battery monitor, run-time meter, detector stability indicators)
- New design easily orients to right or left hand operation
- Highly durable ergonomic backpack carrier for simplified field work
- Wheeled Pelican case for protected shipping and storage
- NiMh 12VDC 9000 mAH gel battery pack (4 to 9 hours) or standard wall power when battery is not in use

Space Saving Flexible Design

- Compact design, sits vertically in backpack, or horizontally on non-slip rubber feet
- Small footprint (HxWxD) 5" x 14" x 11.5" (12.7 cm x 35.6 cm x 29.2 cm)
- Lightweight: 12 LBS (5.2kg)

Fiber Optic Input

- Integrated flexible 1.5m cable allows the probe to go to the sample for easier measurements
- Improved fiber optic cable management

Certification

- CE certified
- NIST traceable calibrations
- 23 Point Certified Quality Inspection

Powerful Remote Sensing Software

- Updated RS3™ software for superior processing of collected data
- Seamless interface with ENVI® software for expanded capabilities
- ASD ViewSpec™ Pro for post processing
- Optional Indico™ Pro (real-time modeling interface featuring ASD's Rapid Classifier)

Environmental Specifications

- Operating Temperature 0° to 40° C
- Storage Temperature -15° to 45° C

Full year warranty, including access to ASD's world class technical support group

