

QUALITYSPEC TREK

Making Field Spectroscopy Easy



Finally! A truly portable full-range near-infrared (NIR) contact spectrometer that is fast, accurate, and easy to use. From the makers of the FieldSpec, LabSpec, and TerraSpec product lines comes QualitySpec Trek, redefining true instrument field-portability while maintaining the highest standards of spectral data quality you expect from ASD.

QualitySpec Trek delivers precision full range spectral measurements through a hand-held system designed around a radically streamlined cable-free workflow. With one pull of the trigger this revolutionary hand-held full-range spectrometer delivers accurate spectral results in seconds. By optimizing spectral collection workflow, portability, and ease of use, QualitySpec Trek saves time in the field and maximizes your research budget investment. There simply is no easier way to collect accurate full-range spectra.

QualitySpec Trek is a general purpose, all-in-one, full-range portable spectrometer measuring the visible and shortwave infrared regions (350-2500nm). The instrument includes an integrated internal light source, on-board GPS, voice audio recorder for expanded sample descriptions, internal white reference for hands-free optimization and calibration, lightweight rechargeable lithium ion batteries, internal wavelength reference, integrated computer and LCD display with easy push button navigation and a PC-based project and data management software ecosystem.

Contact NIR Spectroscopy

Spectral scientists, regardless of research focus or application, often rely on non-destructive contact measurement techniques to acquire spectral signatures. In most cases these measurements are obtained with a configuration involving an optical accessory with an internal light source that is tethered to a portable spectrometer through a fiber optic cable and power cable. In turn, the spectrometer is typically controlled through a portable laptop or PDA.

By eliminating the need for cables and controller accessories, QualitySpec Trek offers a turnkey solution that simplifies your spectral collection work flow and is well-suited for a variety of applications including:

- Spectral profiling of soil horizons
- Spectral characteristics of man-made materials
- Plant physiology studies
- Spectral characterization of snow/ice profiles

QualitySpec Trek Features and Benefits

- **Portability:** Lightweight yet rugged design allows unprecedented portability in a full-range highly accurate NIR spectrometer.
- **Fast and Accurate:** Enhanced spectrometer configuration builds on the trusted legacy of ASD for unparalleled accuracy and performance.
- **Cable Free:** Remove cable management from your data collection workflow with a truly cable-free integrated system.
- **Integrated Computer and LCD:** On board computing and LCD display eliminates the need for 3rd party laptops or hand held devices. Simplify your workflow and leave your PDA at home.
- **Audio Voice Recorder:** Automate your field notes with the convenience of voice memos. The QualitySpec Trek's audio voice recorder feature can record useful descriptive information for each data point measured.
- **Internal Wavelength & White Reference Capability:** On-board internal referencing features ensure instrument performance, high data quality, and liberates the operator from the necessity of frequent white reference measurements.
- **On-Board GPS:** Automatically populate accurate coordinate and elevation data for every measurement.
- **Sample Clip:** Each QualitySpec Trek is shipped with a second magnetic external white reference that serves as a sample clip for scanning thin samples such as parchment, foliage, or fabric.
- **Data Management:** Review and enlarge spectra on the device or on your computer with the PC Manager. Computer software allows for easy spectrum, file, and project management with user-friendly file naming, spectrum review and tagging, and easy import/export capability.
- **Multiple Languages:** QualitySpec Trek is ready to address global markets with fully integrated English, Mandarin Chinese, and Spanish language options.

QualitySpec Trek Specifications

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|------------------------|---|
| Spectral Range (nm) | 350 - 2500 |
| Spectral Resolution | 3 nm @ 700 nm 9.8 nm @ 1400 nm 8.1 nm @ 2100 nm |
| Height x Width x Depth | cm: 31 x 10 x 30 in: 12.3 x 4.0 x 11.7 |
| Weight with battery | 2.5 kg 5.5 lbs |
| Weight without battery | 2.0 kg 4.3 lbs |
| Languages | English, Spanish, Chinese |



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