

FieldSpec® HandHeld 2™

Portable, durable and accurate, the FieldSpec HandHeld 2 is the premier solution for field spectral measurement

The FieldSpec HandHeld 2 spectroradiometer performs rapid, precise, non-destructive and non-contact spectral measurement in a truly portable design. The HandHeld 2 minimizes field data collection time while maximizing the quality of spectral results. The durable and flexible HandHeld 2 produces laboratory-quality results in remote measurement and analysis applications, and in a range of orientations and environments.

Benefits

- Portable, self-contained data collection
- Rapid data acquisition with large file storage capacity
- High precision with proprietary DriftLock™ dark current reduction
- Flexible operation, either local or from external computer
- Precise results over wide 25° field-of-view
- Accurate targeting with integral laser
- Extended run time using standard, AA rechargeable batteries

ASD Inc.

At the core of the HandHeld 2 is ASD's unique VNIR spectrometer. Leveraging proprietary technology, the HandHeld 2 produces high signal-to-noise ratio spectra in under a second using a highly sensitive detector array, low stray light grating, built-in shutter, DriftLock™ dark current compensation, and second-order filtering. The HandHeld 2 provides extremely accurate, quickly derived reflectance, radiance, and irradiance spectra in a variety of settings. An on-board, tiltable color LCD display, integrated computing capability and large internal data storage combine to create a self-contained system without the need for an external controlling computer in the field.

With a wavelength range of 325-1075 nm, an accuracy of ±1 nm and a resolution of <3 nm at 700 nm, the HandHeld 2 delivers unsurpassed performance. The ergonomic design, light weight, accessory handle, laser targeting and tilting color LCD display all contribute to the convenience and ease-of-use in a range of orientations and environments.

Increase your field measurement accuracy and improve your overall spectrum collection process with the FieldSpec HandHeld 2. Contact your ASD sales representative or visit asdi.com today to learn more.

Specifications

Performance

• Wavelength Range	325–1075 nm
• Wavelength Accuracy	±1 nm
• Spectral Resolution	<3.0 nm @ 700 nm
• Noise Equivalence Radiance (NEdL)	$5x10^{-9}W/cm^2/nm/sr$ @ 700 nm
• Integration Time	8.5 ms minimum (selectable)
• Field of View	25° (optional fore optics available)
• Memory Storage	Up to 2,000 spectrum files

Physical

• Power	Four AA batteries (standard or rechargeable) or 5V 1.5A AC/DC adaptor
• Battery Life	Factory supplied rechargeable: up to 2.5 hours Lithium: up to 5 hours (manufacturer dependent) Alkaline: approximately 1.5 hours
• Display	6.8 cm (2.7 in) diagonal, tilting color LCD
• Interfaces	One Mini B USB (PC communications) One Mini TRS jack (Remote trigger) Two Type A USB (Future use)
• Computer Software	RS³™ controlling software ViewSpecPros™ post processing software HH2 Sync interface software
• Targeting	Integral red laser (optional sighting scope)
• Weight	1.2 kg (2.6 lbs) (w/batteries)
• Dimensions (HxWxD)	90 x 140 x 215 mm (3.5 x 5.5 x 8.5 in)
• Temperature Range	0°–40° C
• Tripod Mount	¼"–20 Mounting hole
• Standard Accessories	Pelican™ travel case (meets FAA carry-on requirements), Spectralon® white panel, 4 rechargeable batteries, battery charger, AC/DC power supply, USB cable, USB memory stick and D-handle

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