



FieldSpec® HandHeld 2™

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

The FieldSpec HandHeld 2 and HandHeld 2 Pro spectroradiometers perform 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



Increase your field measurement accuracy and improve your overall spectrum collection process

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, optional GPS module, 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.

The HandHeld 2 Pro offers even greater sensitivity for applications with low reflectance. The Pro incorporates a photodiode array with an area five times larger than the standard HandHeld 2, allowing for spectrum collections up to three times faster than the standard model, with a 5X improvement in the signal-to-noise ratio.

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.

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 (NE Δ L) Standard: 5×10^{-9} W/cm²/nm/sr @ 700 nm
Pro: 5×10^{-10} W/cm²/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 hrs
Lithium: up to 5 hrs (manufacturer dependent)
Alkaline: approximately 1.5 hrs
- 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
ViewSpecPro™ 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° to 40° C
- Tripod Mount 1/4"-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

