



Model 102 -- Product Data Sheet

Hand Portable FT-IR Spectrometer

Rugged remote sensing field and industrial instrument:

- light weight, highly portable, and completely standalone.
- Absolute calibrated emission and radiance field measurements.

Features

- Lightweight, Single Package Design
- Thermally Stabilized Interferometer
- Embedded Pentium® PC Computer
- USB, Ethernet, and VGA ports
- Calibrated Output with Optional Thermally Stabilized Blackbody
- 'Through-the-Lens' Viewing of Targets
- High Sensitivity and Throughput
- Full Sun Readable LCD screen
- Real-Time On-Screen Spectra and Math Processing
- Runs On Compact Battery, 12 Volt, Or Worldwide Universal AC Supply

Benefits

- Compact and highly portable
- No need to carry added laptop
- No need to plug into car or AC power



1280 HOPMEADOW STREET, UNIT E, SIMSBURY, CT 06070 T 860.658.0458 F 860.651.0698
www.dpinstruments.com

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Specifications

Item	Parameter	Value	Units	Comments
1	Spectral Range	2 - 16	micrometers	Standard IR
2	Spectral Resolution (FWHH)	4	wavenumbers	@ 2 μm , Standard, 1 sec. scan
3	Size (WxDxH)	36x20x23	centimeters	(14"x8"x9")
4	Weight	7	kilograms	(15 pounds)

Standard Equipment

- Optical/Electronic module, including interferometer, drive & sampling electronics, embedded Pentium® PC computer, WinFT™ processing software running on Windows2000™, USB, Ethernet, VGA, parallel and serial connections
- Liquid nitrogen (LN₂) cooled dual InSb/MCT detector and preamp (2-16 μm)
- 1"Ø, 4.8° field-of-view fore-optics with through-the-lens viewing
- Worldwide AC supply and dual battery charger
- 12 volt, 7 A-hr battery pack (2)

Optional Equipment

- Thermoelectrically stabilized blackbody (1" or 2" diameter)
- Extended wavelength range, increased resolution, special detectors
- 2", 4" or 6" telescopes, reflection attachment
- Diffuse gold plates for down-welling radiance measurements
- Pouring dewar (4 liter), tripod
- Stirling cooled detector

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