

## ***Model 102***

### **Field and Industrial FT-IR and FT-NIR Spectrometer**

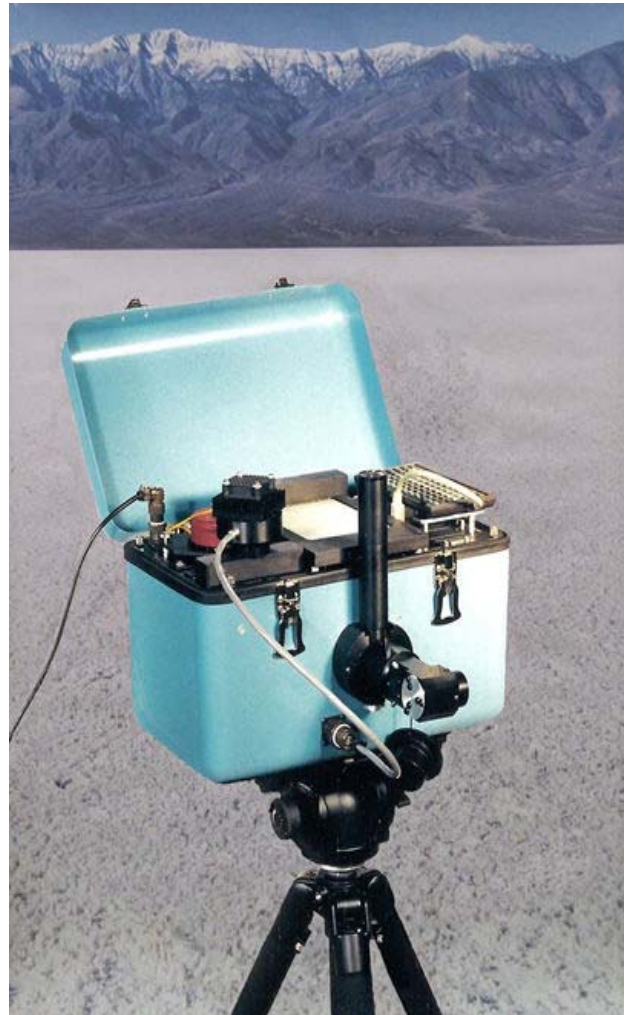
This hand portable, remote sensing field and industrial instrument is lighter and more versatile than our Model 101, which has served the research needs of scientists and engineers worldwide since 1991.

#### **Features**

- Lightweight, Single Package Design
- Thermally Stabilized Interferometer
- Embedded Pentium® PC Computer
- Calibrated Output with Optional Thermally Stabilized Blackbody
- 'Through-the-Lens' Viewing of Targets
- High Sensitivity and Throughput
- Rugged and Field-Proven Construction
- Daylight 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
- Ideal for emission and remote sensing
- Proven design with demonstrated reliability



## Specifications

Item	Parameter	Value	Units	Comments
1	Spectral Range	2 - 16	micrometers	Standard IR
2	Spectral Resolution (FWHH)	6	wavenumbers	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, processing software
- Liquid nitrogen (LN<sub>2</sub>) cooled dual InSb/MCT detector and preamp (2-16 µm)
- 1" Ø, 4.8° field-of-view (FOV) 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)
- Custom or extended wavelength ranges, increased resolution, special detectors
- 2", 4" or 6" telescopes, reflection attachment
- Diffuse gold plate for down-welling radiance measurements
- Pouring dewar (4 liter), tripod

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