

# TurboFT -- Product Data Sheet

## **Fast Portable FT-IR Spectrometers**

Patented TurboFT<sup>™</sup> interferometer.

We allow you to "Take It There".

#### **Features**

- Rapid scanning of 25-100 spectra/second.
- Rugged rotary high throughput FT interferometer
- Thermally stabilized interferometer
- Sensor weight <4 Kg
- Portable "lunchbox" computer
- Real-time on screen spectra, math processing, and file storage
- Instrument control software, including ratio and difference math functions, radiance, and emissivity

#### **Benefits**

- Enables monitoring of rapidly changing targets or processes
- High speed scanning reduces influence of vibration
- Compact size reduces associated packaging / mounting costs and weight
- Maintains calibration in varying environmental conditions



1280 HOPMEADOW STREET, UNIT E, SIMSBURY, CT 06070 T 860.658.0458 F 860.651.0698



#### Specifications

Item	Parameter	Value	Units	Comments
1	Scan Rate	25 to 100	spectra/sec.	Standard @ 4cm <sup>-1</sup>
2	Detector	1	Pixel	Standard MCT
3	Spectral Range	5 - 16	micrometers	Standard;
				(2.5–16 available)
4	Spectral Resolution	4	Wavenumbers	Unapodized
	(maximum) (FWHM)		cm⁻¹	
5	Size <sup>1</sup> (WxDxH)	20x20x15	centimeters	(8.0"x 8.0"x 6.0")
6	Weight <sup>1</sup>	< 4	Kilogram	(< 9.0 pounds)
<sup>1</sup> Note: Size and Weight shown based on sensor only. Computer and cables additional				

#### **Standard Equipment**

- Optical/Electronic module, including interferometer, LN2 cooled MCT detector and pre-amp
- Drive & sampling electronics
- Stand-alone AC powered Windows "lunchbox" style PC computer with 14-15 inch LCD screen
- Real-time TurboFT processing and control software
- 1" dia., 4.8° field-of-view (FOV) fore optics with through-the-lens viewing

### **Optional Equipment**

- 2.5-5 micrometer InSb detector
- Thermoelectrically stabilized blackbody
- 2" or 4" telescope (thru-the-lens viewer)
- Diffuse gold plate for down-welling radiance measurements
- Pouring Dewar (4 liter), tripod
- Portable computer with built-in batteries for off-grid operation



(Photo courtesy of Sterling Computer)

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#### www.dpinstruments.com

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