



## ***TurboFT -- Product Data Sheet***

### **Fast Portable Spectral Sensors**

- ⊕ Patented TurboFT™ interferometer.
- ⊕ Portable plume detection.

We allow you to “Take It There”.

#### **Features**

- Rapid scanning to 200 spectra/sec.
- Rugged high throughput interferometer
- Sensor weight <1 Kg
- Portable “lunchbox” computer
- Real-time output
- Instrument control software, including ratio and difference math functions, detection algorithm

#### **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

#### **Applications**

- Airborne chemical plume sensing
- Geological mapping
- On-line process monitoring
- Environmental monitoring and compliance



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[www.dpinstruments.com](http://www.dpinstruments.com)

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Please note that all specifications, design, and availability for sale may be changed at any time without notice.

## Specifications

Item	Parameter	Value	Units	Comments
1	Scan Rate	Up to 100	spectra/sec.	Standard (200@8cm <sup>-1</sup> )
2	Detector	1	Pixel	Standard MCT
3	Spectral Range	7 - 15	micrometers	Standard (3–15 available)
4	Spectral Resolution (FWHH)	4	cm <sup>-1</sup>	Standard
5	Size <sup>1</sup> (WxDxH)	14x11.5x13	centimeters	(5.5"x4.5"x5")
6	Weight <sup>1</sup>	<1	Kilogram	(< 2.2 pounds)

<sup>1</sup> Note 1/ Size and Weight shown based on interferometer only.

### Standard Equipment

- Optical/Electronic module, including interferometer, LN2 cooled MCT detector and pre-amp
- Drive & sampling electronics
- Stand-alone "lunchbox" Pentium® computer with LCD screen
- Real-time processing and control software with ratio and difference
- 1"Ø, 4.8° field-of-view (FOV) fore optics with through-the-lens viewing

### Optional Equipment

- Custom  $\lambda$  range, increased resolution
- Special detectors, Stirling cooled detectors
- Thermoelectrically stabilized blackbody
- 2", 4" or 6" telescope
- Pouring dewar (4 liter), tripod, source and drive electronics
- Customized packaging
- Portable computer with built-in battery charger for off-grid operation
- Our proprietary detection algorithm
- DLL for OEM and remote sensor control



(Photo courtesy of Sterling Computer)

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