

TurboFT: Mobil High Speed FTIR **Single Pixel Sensors and Multi Pixel Mosaic Imaging**

This compact field and industrial instrument is used for both ground based and airborne applications requiring high speed spectrometry, and utilizes our patented TurboFT technology. Applications in remote sensing for geological mapping, airborne chemical agent detection, and online process control systems. Our rugged and compact design allows you to "Take It There".

Features

- Rapid scanning from 10 to 360 scans per second
- Rugged high throughput interferometer
- Weighs <5lbs.
- Embedded or stand-alone PC options
- Choice of customized detectors and detector arrays
- Multi-pixel mosaic hyper-spectral imaging
- Real-time hyper-spectral output

Benefits

- High speed scanning reduces influence of vibration
- Enables monitoring of rapidly changing targets or processes
- Compact size reduces associated packaging/mounting costs and weight
- **"FT-IR: Take It There"**TM



Specifications

Item	Parameter	Value	Units	Comments
1	Scans Rate	10-360	scans/sec.	
2	Detector Arrays	1 to 8x8	pixels	Please Specify
3	Spectral Range	2.5 - 16	micrometers	Standard IR ¹
2	Spectral Resolution	4-8	wavenumbers	Standard
3	Size ² (WxDxH)	23x15x18	centimeters	(9"x6"x7")
4	Weight ²	<2.5	kilograms	(< 5 pounds)

¹ Can be optimized for 3-5 and 8-14 micron atmospheric windows

² Size and Weight shown based on interferometer and standard MCT detector only. Additional electronics and packaging determined by customer requirements.

A note to our customers:

The unique capabilities of the Turbo FT interferometer enable new solutions for challenging sensing applications. For this reason, most Turbo systems are highly customized for each customer. We look forward to working with you on your applications.



Designs and Prototypes, Ltd.
 38 Berkeley Street
 Nashua, NH 03064 USA
 (603) 886-6736
 Fax (603) 883-0302

Simsbury Instruments Division
 1280 Hopmeadow Street Unit E
 Simsbury, CT 06070 USA
 (860) 658-0458
 Fax (860) 651-0698