

High-performance FTIR Analyser for Mid-IR measurements



**Innovative Design**

- Rugged Construction
- Double Pivot Michelson Interferometer (patent pending)
- Small Footprint (0.1 m<sup>2</sup> ; 1.3 ft<sup>2</sup>)
- Compatible with most FTIR accessories
- Maintenance Free

**Intuitive Software**

- Easy to Use
- Efficient Data Acquisition, Processing and Analysis
- Extensive Built-In Health Monitoring

## SPECTROSCOPIC PERFORMANCE (typical, at 25 °Celsius with DTGS detector)

■ Spectral Range	490 to 8,500 $\text{cm}^{-1}$
■ Resolution better than	0.7 $\text{cm}^{-1}$
■ Apodized Resolution Adjustable	1 to 64 $\text{cm}^{-1}$ , in steps of 2x
■ Signal to Noise (60 s, 4 $\text{cm}^{-1}$ , at peak response)	50,000: 1
■ Signal Sampling	24-bit ADC
■ Short-term Stability	< 0.09 %
■ Temperature Stability	< 1 % per degree Celsius
■ Frequency Repeatability	(@ 1918 $\text{cm}^{-1}$ ) < 0.001 $\text{cm}^{-1}$
■ Frequency Accuracy	(@ 1918 $\text{cm}^{-1}$ ) < 0.01 $\text{cm}^{-1}$

## APPLICATION SOFTWARE (Computer not included)

■ Standard Software	HORIZON MB™ FTIR Software
■ Optional Software	HORIZON MB™ QA Software
■ Operating System Compatibility	Win XP Pro
■ Optional Modules	Pro pack, Library, Quantify, Scripting, Pharma

## OPTICAL BENCH

■ Beamsplitter Material	ZnSe (non-hygroscopic)
■ Interferometer Mechanism (patent pending)	High-throughput double pivot Michelson, fully jacketed
■ Purgeable	Enclosure, detector head & sample compartment
■ Source (with electronic stabilization)	(Ceramic Globar) 10-year expected life
■ Solid-state Laser	No scheduled maintenance required
■ Detector Module	DTGS
■ Sample Compartment Configuration	Open (Arid-Zone), center focus
■ Sample Compartment Dimensions	20 cm x 14 cm plate, 8.7 cm beam height
■ Sample Compartment Mounting	3-point pin-in-place mounts

## DATA COMMUNICATIONS

■ Hardware Port	Ethernet, 10/100 Mbps
■ Connection	Direct-connect or LAN

## INSTRUMENT ENCLOSURE

■ Material	Rugged Design, all-metal frame with integral handles
■ Size	435 mm (W) x 280 mm (D) x 372 mm (H)
■ Weight	24 kg

## ENVIRONMENTAL

■ Universal Power Supply	120-240 VAC, 50/60 Hz
■ Power Consumption	65 W
■ Operating Temperature	10 °C to 35 °C
■ Operating Relative Humidity	5 % to 80 %, non-condensing
■ Regulatory Certification and Compliance	TUV, CE and RoHS



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