

High-performance FTIR Analyser for Near IR measurements



Innovative Design

- Rugged Construction
- Double Pivot Michelson Interferometer (patent pending)
- Small Footprint (0.1 m² ; 1.3 ft²)
- Compatible with Most FTIR Accessories
- Designed for No Scheduled Maintenance

Intuitive Software

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

SPECTROSCOPIC PERFORMANCE (typical, at 25 Celsius with InAs detector)

■ Spectral Range (1% amplitude)	2,700 to 14,980 cm ⁻¹
■ Linear Scan Velocity	8 steps from 0.2 to 2 cm per second
■ Best Un-apodized Resolution	0.5 cm ⁻¹
■ Apodized Resolution (from 0.2 to 1 cm/s)	1 to 64 cm ⁻¹ , in steps of 2x
■ Apodized Resolution (at 2 cm/s)	4 to 64 cm ⁻¹ , in steps of 2x
■ Signal to Noise (60s, 16 cm ⁻¹ , at peak response)	> 900,000:1 (< 5 uA)
■ Short-term Stability	< 0.1 %
■ Temperature Stability	< 1 % per degree Celsius
■ Frequency Repeatability	< 0.006 cm ⁻¹
■ Frequency Accuracy (Cooled InAs detector)	< 0.04 cm ⁻¹
■ Absorbance Reproducibility (toluene)	< 0.002 Abs unit

APPLICATION SOFTWARE (Computer not included)

■ Standard Software (included)	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 (all non-hygroscopic optics)
■ Interferometer Mechanism (patent pending)	High-throughput double pivot Michelson, fully jacketed
■ Purgeability	Enclosure, detector head & sample compartment
■ Source (with electronic stabilization)	Quartz Halogen, 10-year expected half-life
■ Laser	Solid-state, designed for no scheduled maintenance
■ Detector Modules	DTGS
■ Available Detector Modules (with integrated cooling)	InAs, InGaAs
■ Sample Compartment Configuration	Open (Arid-Zone), center focus
■ Sample Compartment Dimensions	20 x 14 cm plate, 8,7 cm beam height
■ Sample Compartment Mounting	3-point pin-in-place mount

DATA COMMUNICATIONS

■ Hardware Port	Ethernet, 10/100 Mbps
■ Connection	Direct-connect or LAN
■ Sampling	24-bit data into 32-bit words

INSTRUMENT ENCLOSURE

■ Material	Rugged, all-metal frame with integral handles
■ LED Indicators	Power, Status, Data
■ Size	435 W x 280 D x 372 H mm
■ Weight	24 kg
■ Stability	Vibration isolated damper feet
■ Instrument Purge	Single Swagelock 1/4" male quick-connect
■ Power Connector	Low-voltage input connector with lock

ENVIRONMENTAL

■ Included High-performance Power Block	120-240 VAC, 50/60 Hz
■ Power Consumption	65 W
■ Operating Temperature	10 to 35 Celsius
■ Operating Relative Humidity	5 to 80 % , non-condensing
■ Regulatory	CSA, RoHS, CE

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