



MicromATR™

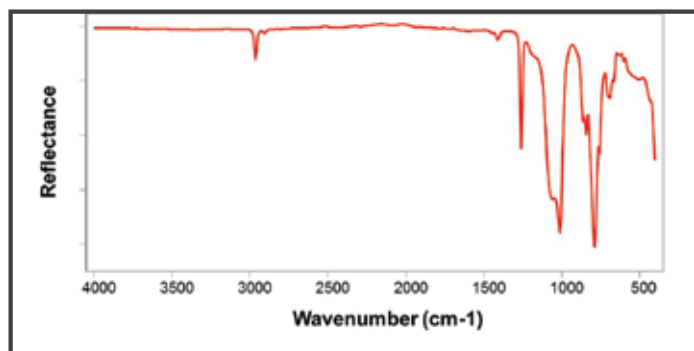
Durable, Fast and Easy

Features of the MicromATR™

- Highest throughput, cost effective diamond ATR accessory
- Versatile macro and micro ATR sampling
- Complete mid-IR and far-IR spectral range
- Kinematic ATR sampling plates – optimal position every time
- Compatible with a broad range of ATR crystal plates
- Compact optical design fits your FT-IR

The MicromATR™ is an all new product designed to provide the highest available optical throughput in a monolithic diamond ATR accessory. The small diameter of the crystal broadens the sample range from macro to microsampling.

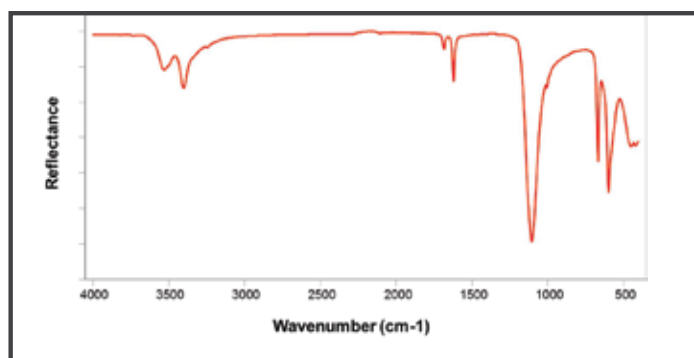
ATR sampling with the MicromATR™ is fast and easy. Elegantly smooth operation of the pressure clamp delivers high and even pressure onto the sample ensuring high quality ATR spectra from even the most difficult samples.



ATR spectrum of polydimethyl siloxane collected using a 20 second scan time and 4 cm-1 spectral resolution.

The recommended crystal plate for most applications is diamond - providing a durable, scratch proof sampling surface. The Diamond XR plate provides full mid-IR and far-IR spectral range and sample view through the crystal. The Diamond HT (high throughput) version provides maximum IR signal and highest signal-to-noise ratio (SNR) for the most difficult samples. Optional crystal plates for the MicromATR™ include germanium (Ge) for high refractive index samples, Diamond 3X (3 reflection) and Diamond 9X (9 reflection) crystal plates (limited pressure) for low concentration components and liquids. Crystal plates are kinematic and easily exchangeable with no alignment, tools or screws required. The MicromATR™ is also compatible with crystal plates from some other manufacturers.

(please contact Czitek for a complete list)



ATR IR Spectrum of gypsum, an important mineral for use in very many products including construction products.

Applications

- Drug characterization
- Forensic Science
- Fiber analysis
- Contaminant identification
- Surface defect characterization

Features and Options

ATR Crystal Plates	Diamond XR (to 10 cm-1)
	Diamond HT (to 500 cm-1)
	Ge (to 600 cm-1)
	Diamond 3X (to 650 cm-1)
	Diamond 9X (to 650 cm-1)
Crystal Plate Mount	Kinematic, magnetically fixed
ATR Crystal Dimensions	2.5 mm diameter
	(Diamond XR and HT)
	4.3 mm (Diamond 3X)
	6 mm (Diamond 9X)
Crystal Plate Material	Stainless steel
Angle of Incidence	45 degrees, nominal
Focus Optics	Reflective
Pressure Clamp	Handle-Lock, adjustable
	Torque Knob
Maximum Pressure	30,000 psi (Diamond XR and HT versions)
Purge enclosure	Smallest purge volume
	Purge / Seal tubes included
Dimensions	4.5 X 3.5 X 3.5 inches
	114 X90 X 90 mm
Upgrade Kit	MicromATR Vision™ Video Microscopy
FT-IR Compatibility	Most (please contact Czitek)

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