ATR Sampling Capabilities for the Bruker Alpha FTIR Spectrometer:

# High Performance ATR Probes and Dedicated Interface Modules

Optimized ATR systems for laboratory and process applications.

*DMD-370 Mounted to a Bruker Alpha FTIR spectrometer*

## DPR-212 HIGH TRANSMISSION ATR PROBE

A robust ATR probe offering optical transmission well above 20% when coupled to the Bruker Alpha spectrometer by means of the SM-Alpha1 Interface Module. The DPR212/Alpha combination provides a complete system ideal for tasks ranging from rapid incoming inspection and final product QC to real-time chemical reaction monitoring. Interchangeable ATR elements include ZnSe, AMTIR-I, and ZnS. Other elements are also available, as are extended length versions of the probe.

## DMD-370 DIAMOND-TIPPED ATR PROBE

With transmission of over 10%, when coupled to the Bruker Alpha spectrometer by means of the SM-Alpha1 Interface Module, the DMD-370 provides high performance without requiring a liquid nitrogen cooled MCT detector. The combination of a diamond ATR element, energized PTFE seal, and standard Hastelloy construction provides a high degree of resistance to almost any chemical system. The DMD-370 ideally suited to on-line fingerprint region process monitoring in a wide variety of applications.

## SM-Alpha1 SPECTROMETER SAMPLING MODULE

The SM-Alpha1 is interchangeable with standard Bruker QuickSnap™ sampling modules. Its unique optical design features an F:4.5 optical beam geometry, providing optimum performance for use with our ATR probes and many other commercially available sampling accessories.

When used with an ATR probe, it allows a full 180° of rotation about the optical axis, providing maximum flexibility in interfacing to laboratory or process reaction vessels.

The combination of the Bruker Alpha FTIR spectrometer with the SM- Alpha1 Sampling Module and our ATR probes provides a compact, robust, and flexible system for mid-IR chemical analysis in a wide variety of settings.

## FEATURES:

- Uses standard DTGS IR detector (no liquid nitrogen required)
- Extreme chemical resistance (DMD-370)
- Resistant to extreme temperatures and thermal shock
- Full fingerprint region spectral coverage
- Linear response for high photometric accuracy

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