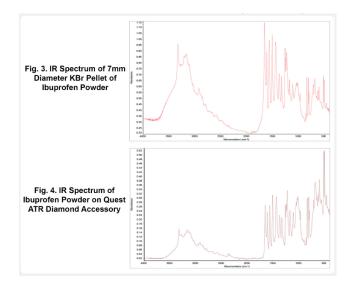


Quest ATR - A Journey into Performance and Value



Key Features

- Strong and durable monolithic diamond
- Extended wavelength capability from 10,000 to 40 wavenumbers
- High spectral quality and high throughput capability
 Interchangable Diamond, ZnSe and Ge ATR crystal
- puck options



The Quest ATR Accessory is a performance single-reflection ATR accessory designed for laboratory spectroscopy sample analysis in the mid- and far-infrared. With an innovative optical design and durable monolithic diamond

ATR crystal option, this product sets the benchmark in performance and value for ATR spectroscopy.

In its standard configuration, the Quest ATR Accessory has a strong and durable monolithic diamond ATR crystal which is ideal for analysing hard inflexible solid materials without risk of being scratched or damaged even for extreme point loads. Coupled with diamond's inherent chemical resilience, this allows the QuestATR Accessory to be used with the broadest range of sample types.

A 1.8mm diameter diamond sample area means that good contact can be achieved even with

the smallest amount of material available for analysis.

The Quest ATR Accessory features an all-reflective optical design, based around Specac's proprietary Synopti-Focal Array technology. This comprises precision-moulded aspheric mirrors and gold-coated optics as standard, and provides the Quest ATR Accessory with high transmission throughput and an extended wavelength range capability to match that of your mid and far-infrared FTIR instrument. Together with an optimized angle of incidence on the ATR crystal, these features ensure outstanding quality of spectra.

Four easily-interchangeable crystal pucks are available for use with the Quest ATR Accessory: a high-throughput diamond puck for mid-infrared analysis (4000 to 400cm•1), an extended wavelength range diamond puck for the mid- and far-infrared (4000 to 40 cm-1), a ZnSe

crystal puck for softer.materials, and a Ge crystal puck for strongly absorbing samples.

These ATR crystals are mounted in a durable stainless steel puck and held in place against a robust metal seal to ensure compatibility with a broad range of sample types.

Repeatable and reproducible sample loads are enabled by a fullfunction pressure tower. This has an audible 'click' to indicate at the preset pressure limit, and features a swing anvil arm to allow easy access to the ATR crystal puck. Bath plane and pellet anvils are provided with the accessory to allow analysis of samples of various shapes. These anvils are easily interchangeable and stored on the top plate when not in use.

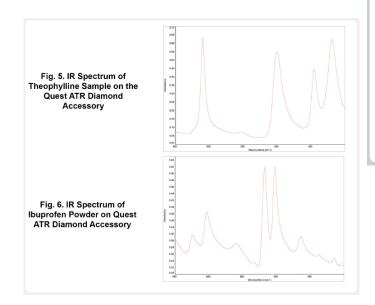
Note that the Quest ATR Accessory is Benchmark BaseplateTM compatible.

Why is a monolithic diamond important?

'Diamond' ATR Accessories on the market are generally available in two forms: those that feature a solid monolithic diamond and those with a thin diamond wafer supported by an optical element (typically ZnSe).

Monolithic diamond ATR accessories are seen to benefit from the inherent robustness and durability of a solid diamond element, and are particularly resilient to high point loads typically encountered when analysing hard irregularly-formed samples. They can also take advantage of the broad transmission window of diamond (10.000 to 40 cm^{-1}).

Conversely, diamond wafer ATR accessories are seen to be more fragile under point loads, can suffer de-lamination from the supporting element, and have a useable transmission range that is often limited by the support material. However, featuring a thinner diamond, they also have weaker diamond absorption features at 2000 to 2500 cm⁻¹.



Ordering Information

Complete Quest ATR Accessory

GS10800-X	Quest ATR Diamond Accessory
GS10801-X	Quest ATR Diamond Extended Range
	Accessory
GS10802-X	Quest ATR ZnSe Accessory
GS10803-X	Quest ATR Ge Accessory

Please specify spectrometer make & model

Х	represents	Top Plate	colour, the	colours	available are:
Б	in fay Dlask		O in fam	0	

B IS for Black colour
R is for Red colour
Y is for Yellow colour
P is for Purple colour

O is for Orange colour G is for Green colour A is for Aqua colour

Quest ATR Puck Only

 GS10810
 Quest ATR Diamond Crystal Puck

 GS10811
 Quest ATR Diamond Extended Range Crystal

 Puck
 Quest ATR ZnSe Crystal Puck

 GS10812
 Quest ATR ZnSe Crystal Puck

 GS10813
 Quest ATR Germanium Crystal Puck

Spares and Accessories

GS10820	Quest ATR Stainless Steel Flat Anvil
GS10821	Quest ATR Stainless Steel Pellet Anvil
GS10825	Quest ATR Volatiles Cover
GS10707	Purge Bellows (Pair)

Far IR Measurement with Quest sytem





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