

## Quest ATR Specifications

Accessory Weight	1.6 Kg
Accessory Dimensions (W x D x H)	15 x 15 x 18 cm (excluding purge bellows) 28 x 15 x 18 cm (including purge bellows)
Maximum Anvil Travel	1.8 cm
Crystal Puck Options	Diamond, ZnSe & Ge
Puck Material	Hardened Stainless Steel
Active Area of Crystal	1.8 mm (Diamond), 3.4 mm (ZnSe & Ge)
Wavelength Range	7,800 - 400 cm <sup>-1</sup> (Diamond) 10,000 - 40 cm <sup>-1</sup> (Extended Range Diamond) 7,800 - 480 cm <sup>-1</sup> (ZnSe) 5,550 - 450 cm <sup>-1</sup> (Ge)
Nominal Angle of Incidence	45°
ATR Seal	Metal Compression Seal
Optics	Gold Coated, All Reflective
Anvil Options	Plane, Pellet and Volatiles Cover
Sample Load	40 lbs (10,000 psi over diamond area)
Purge Fitting	1/4"

## 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

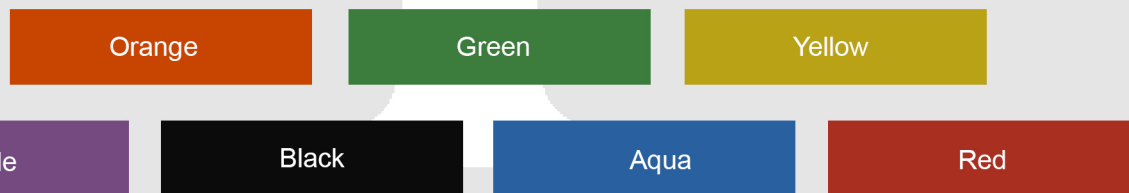
### Quest ATR Puck Only

GS10810	Quest ATR Diamond Crystal Puck
GS10811	Quest ATR Diamond Extended Range Crystal Puck
GS10812	Quest ATR ZnSe Crystal Puck
GS10813	Quest ATR Ge Crystal Puck

**X** represents the Top Plate Colour

**The colours available are:**

- B for Black
- R for Red
- Y for Yellow
- G for Green
- A for Aqua
- P for Purple
- O for Orange



Illustrations, descriptions and specifications in this datasheet were correct at the time of going to press. However, Specac's policy is one of continuous product development and we reserve the right to change descriptions and specifications at any time.

For the latest details please contact your local Specac office or representative.

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## Quest ATR Accessory

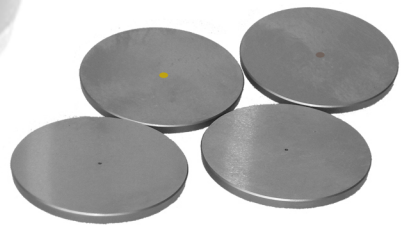
The Quest ATR, a journey into performance and value



Single Reflection Accessory for mid-IR and far-IR Spectroscopy

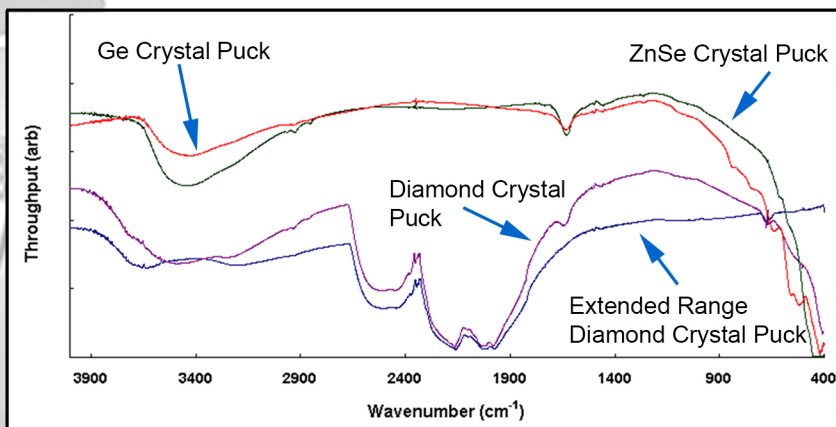
# Quest ATR Accessory

a journey into performance and value



### Choice of ATR Crystal Pucks

- Hardened stainless steel puck
- Metal seal around the ATR crystal
- High-throughput AR coated monolithic diamond, uncoated extended range monolithic diamond, ZnSe, and Ge crystal options
- User changeable with magnetic hold fast



Mid-infrared transmission spectra of Quest ATR crystal choices

### Anvil Arm

- Rotates out the way for easy access to sample area
- User changeable plane and pellet anvils
- Volatiles cover provided for liquid analysis

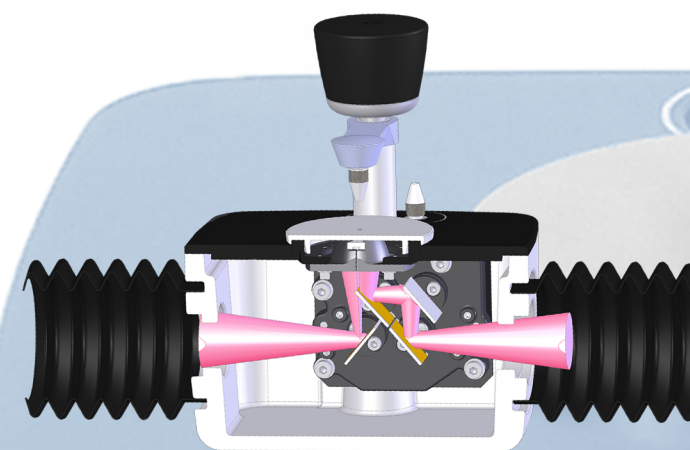


### Pressure Tower

- Pressure applied to 40lbs load
- Torque limited load mechanism
- Audible 'click' at pre-set torque limit

### Innovative Optical Design

- Specac's proprietary synopti-focal array technology
- Precision-moulded aspheric mirrors to accurately focus light into the ATR crystal
- All reflective gold-coated optics as standard for high transmission throughput
- Suitable for both left-to-right and right-to-left FTIR instruments
- Mid- to far-infrared capable



### Superior Performance

- Optimised optical design for high peak sensitivity and improved signal to noise
- Low peak distortion and baseline offset

### Purge Bellows

- Collapseable to fit a range of instruments
- Easily removable

### Top Plate

- Available in a range of colours to fit the modern laboratory

### Purge Port

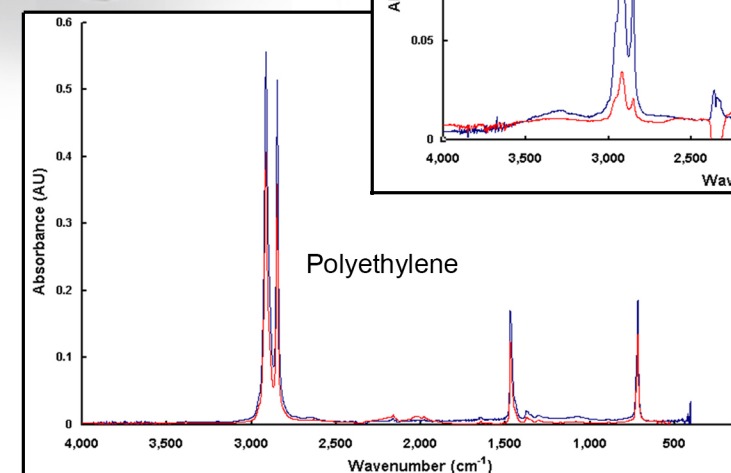
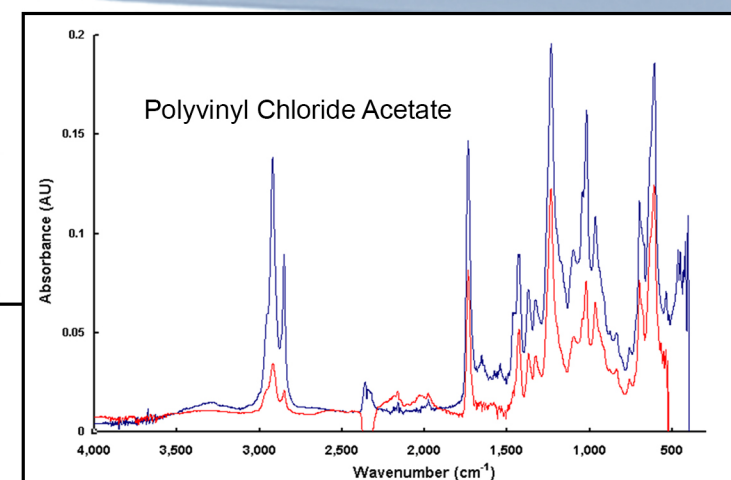
- For elimination of water vapour and CO<sub>2</sub> spectral absorption features

### Removable Front Panel

- Allows access to mirror alignment adjustors

### Benchmark Baseplate Compatible

- Fits standard FTIR instruments
- Quick and easy to fit
- Swaps between instruments



The Quest ATR Trace (Blue)  
Diamond Wafer ATR Trace (Red)

Mid-infrared spectra of polyethylene and polyvinyl chloride acetate for a diamond Quest ATR Accessory compared with a competitor's diamond wafer ATR