

Quest™ single reflection ATR accessory

The Quest™ ATR is a single-reflection ATR accessory from Specac designed for routine use in academic and industrial laboratories. With features designed to inspire confidence in the quality of results and reliability in use, this product sets the benchmark in performance and value in ATR-FTIR Spectroscopy.

Key Features of the Quest ATR

Monolithic diamond ATR

Covers the full spectral range of your instrument. Also chemically resilient, scratch resistant, and able to sustain high point loads.

Interchangeable crystal pucks

Easily switch ATR crystals and sampling plate options without use of tools.

All reflective optics

Increase optical throughput and maximize spectral range.

Pressure tower

Reduce sample-to-sample variation with repeatable and reproducible load application pre-set to 40 lbs.



Sampling options



Diamond

High chemical resistance, physical hardness, and scratch resistance. Anti-reflection coated as standard to maximise throughput, it is also available as an "extended range" uncoated version for experiments in the Far IR.



Zinc Selenide (ZnSe)

Useful for experiments where the phonon bands of diamond would interfere with peak quantification, or as a low cost alternative to diamond.



Germanium (Ge)

Has a higher refractive index leading to reduced depth of penetration. This is helpful for highly absorbing samples such as carbon black, or for depth profiling (in comparison to ZnSe or diamond).

Heated ATR puck



- The heated puck is able to raise the sample to a maximum temperature of 110 °C.
- The temperature is maintained precisely through use of a 4-wire RTD sensor.
- Control of the accessory comes from a USB software interface (available here) with features for temperature programming and datalogging.
- Available in both diamond and ZnSe.

Sampling options



Liquids pucks

These pucks have a recessed sample well for improved liquid containment. Useful for sampling of low viscosity liquids which spread out too much on the flat pucks.



Luer port flow cell

This flow cell is secured using the pressure tower and enables samples to be flowed or injected using the two Luer ports. It has an internal volume of 28 ml.

Arrow™ Si consumable ATR

Low cost ATR sampling slides for high throughput liquid sampling applications.



Each slide is a consumable item. They are ideal for forensic and hazardous material identification, where sample cross-contamination must be avoided or where cleaning methods are slow and ineffective.

Ordering Information

Complete Quest™ Accessory

Includes optical base unit, ATR crystal puck, built-in pressure tower, two sampling anvils, purge bellows, and a baseplate matched to your spectrometer

GS10800	Quest ATR with diamond puck
GS10801	Quest ATR with extended range diamond puck
GS10802	Quest ATR with ZnSe puck
GS10803	Quest ATR with Ge puck
GS10894	Quest ATR with heated diamond puck
GS10895	Quest ATR with heated ZnSe puck

Note: please specify spectrometer make and model when ordering. Specify country of purchase for correct electrical power supply. Individual Quest™ ATR pucks

Arrow™ and other sampling accessories

GS10885	Arrow™ Starter Kit (puck plus 100 slides)
GS10884	Quest ATR with Arrow™ Starter Kit
GS10882	Arrow™ slides refill pack (pack of 100)
GS10816	Specular reflectance puck
GS10822	Luer port liquid flow cell anvil

Spares & Replacements

GS10805	Quest optical base
GS10820	Stainless-steel flat pressure anvil
GS10821	Stainless-steel pellet anvil
GS10825	Volatiles cover
GS10707	Purge bellows
GS01110	Luer syringes (for flow cell) 2ml

Individual Quest™ ATR pucks

Order as additional pucks or in conjunction with the GS10805 optical base unit.

	Diamond (AR coated)	Diamond (Extended Range)	Zinc Selenide	Germanium (AR coated)	Silicon
Spectral range	7,800-400 cm ⁻¹	10,000-10 cm ⁻¹	7,800-500 cm ⁻¹	5,500-480 cm ⁻¹	8,333-100 cm ⁻¹
Refractive index	2.40	2.40	2.41	4.00	3.41
Depth of penetration	2.0 μm	2.0 μm	2.0 μm	0.7 μm	0.9 μm
Flat puck	GS10810	GS10811	GS10812	GS10813	GS10819
Liquid puck	GS10860	GS10861	GS10862	GS10863	
Heated puck		GS10890	GS10891		

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