

The Silver Gate™

Single Reflection ATR System



The Silver Gate single reflection ATR system is a new, high throughput FTIR accessory capable of analyzing solids, liquids, and pastes with little or no sample preparation. The quick lock and release bridge based on the proven Golden Gate™ diamond ATR system, allows for rapid sample throughput and reproducible solid sampling. It also has a built-in torque limiter to control the loads applied to the ATR crystal.

The standard configuration uses a germanium crystal bonded into a hard-anodized top-plate for maximum resistance to chemical attack. The sampling surface is flat to ensure the best possible contact with any sample, avoiding point loading as well as the stray light and non-linearity found with domed crystals. The Silver Gate single reflection ATR is extremely robust and it has factory pre-aligned optics. This ensures that it can be installed easily and rapidly with little or no alignment. The Silver Gate optics are fully enclosed and can be purged very quickly due to the small internal volume. The Benchmark base-plate mounting system allows the accessory to be rapidly and reproducibly replaced in your

spectrometer and provides the stability needed for a high sample throughput. The Silver Gate single reflection ATR accessory is a fixed configuration accessory, ideal for use in quality assurance. The simple, efficient optical design of the Silver Gate single reflection ATR accessory makes it ideal for polarization studies as well as extremely robust.

The Silver Gate accessory is the latest addition to the range of ATR accessories from Specac. These include the entry-level Benchmark single reflection ATR, the versatile Benchmark multi-reflection ATR, and the high performance Golden Gate diamond ATR accessories.

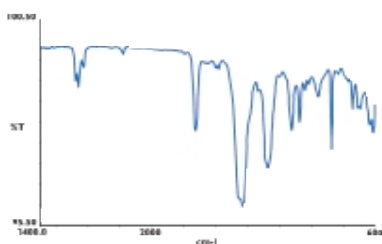


A high throughput single reflection ATR accessory for the FTIR analysis of solids, liquids, gels and pastes

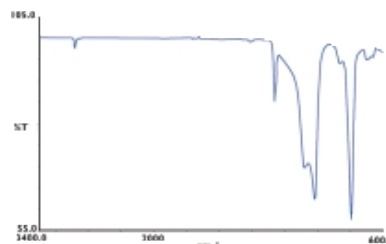
Key Sampling Benefits

- Rapid analysis of solids, liquids and pastes with little or no sample preparation.
- High optical throughput provides fast and efficient sample measurement.
- Proven, strong clamping device, based on the Golden Gate diamond ATR, allows rapid, reproducible sample throughput.
- Flat crystal surface provides optimum sample contact and prevents point loading.
- Rugged, fixed configuration design makes the Silver Gate ATR accessory ideal for quality assurance.
- Open top-plate architecture for easy sample access

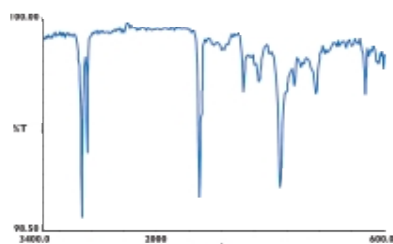
Single Reflection ATR Accessory Checklist	
High throughput of energy for short measurement times	✓
Simple, enclosed, low volume optics for short purge time	✓
Benchmark base-plate for quick, reproducible results	✓
Flat crystal for optimum sample contact	✓
Proven quick lock and release bridge, with built-in torque limiter	✓
Hard-anodized top plate for chemical resistance	✓



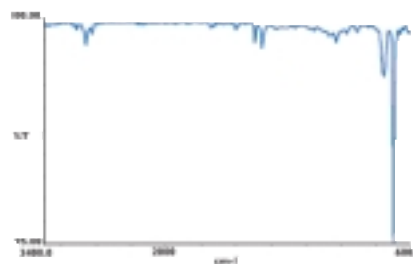
Black modem cable measured with a Germanium crystal



Black rubber sample measured with a Germanium crystal



Small polymer pellet measured with a Germanium crystal



Black floppy disk case measured with a Germanium crystal

Ordering Information

- 10580 Silver Gate single reflection ATR with germanium crystal. Includes optics, anodized top-plate, Golden Gate type clamping device with integral torque limiter and flat anvil, volatiles cover, Benchmark baseplate, and purge bellows. *Please specify spectrometer make and model.*
- 10581 Silver Gate Single Reflection ATR with zinc selenide crystal. As 10580 except with zinc selenide crystal. *Please specify spectrometer make and model.*

Spares

- 10582 Stainless steel large anvil for Silver Gate single reflection ATR
- 10503 Volatiles cover
- 10707 Purge bellows

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