

Silver Gate™ Evolution

A high throughput, single reflection ATR accessory for the FTIR analysis of solids, liquids, gels and pastes - with interchangeable crystal plates.



The Silver Gate™ Evolution single reflection ATR system is a high throughput FTIR accessory capable of analysing solids, liquids and pastes with little or no sample preparation.

The Silver Gate™ Evolution standard configuration has an interchangeable crystal plate with replacement crystal plates available. The sampling surface can be flat or recessed - depending on customer requirements and can be bought with or without the clamp bridge.

Stability and high sample throughput is provided by the built in torque limiter which controls the applied load and the Benchmark™ base plate mounting system allows the Silver Gate™ Evolution to be rapidly mounted in the spectrometer without re-alignment.

The Silver Gate™ Evolution single reflection ATR is extremely robust and the factory pre-aligned optics help make it an ideal cost-effective accessory for quality assurance and sample analysis.

Key sampling benefits

- Rapid analysis of solids, liquids, gels and pastes with little or no sample preparation
- High optical throughput (greater than 55% achievable) - provides fast and efficient sample measurement
- Proven, strong clamping device, based on the Golden Gate™ ATR technology, allows rapid, reproducible sample throughput
- Flat crystal surface provides optimum sample contact and prevents point loading and stray light
- Versatility through a choice of sample plates (crystal material and design)



Illustrations, descriptions and specifications in this data sheet 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.

Ordering information

Your Silver Gate™ Evolution will be configured from the following components. Please specify the make and model of your spectrometer.

Silver Gate Optics Unit

(must select)

Part Number	Description
GS10681	Silver Gate Evolution Optics Unit

Note: the Optics Unit includes a volatiles cover and purge bellows

Silver Gate Evolution Top Plates

(must select one)

Part Number	Description
GS10682-1	Top plate without clamp bridge
GS10682-2	Top plate with clamp bridge

Note: GS10682-2 includes both Pellet and Plane Anvil

Silver Gate Evolution Crystal Plates

(must select one or more)

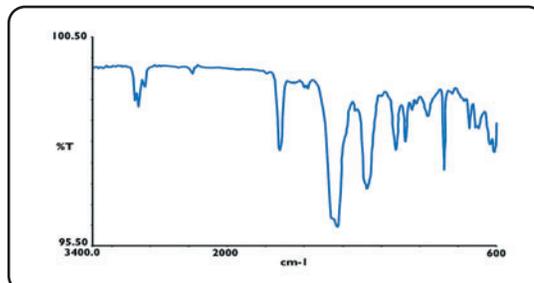
Part Number	Description
GS10683-1	ZnSe flat crystal plate
GS10683-2	Ge flat crystal plate
GS10684-1	ZnSe recessed crystal plate
GS10684-2	Ge recessed crystal plate

Silver Gate Evolution Replacement parts

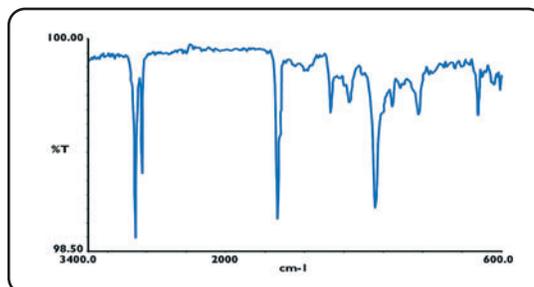
Part Number	Description
GS10503	Volatiles cover
GS10532	Pellet Anvil
GS10567	Plane Anvil
GS10707	Purge Bellows

High optical throughput provides fast and efficient sample measurement

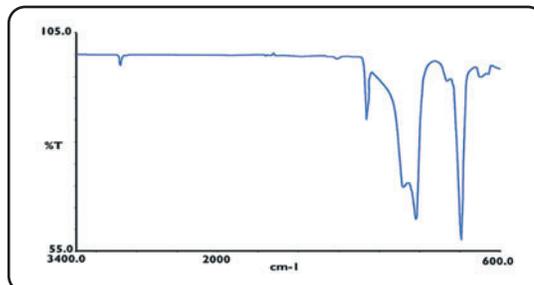
Black modem cable measured with a Germanium crystal



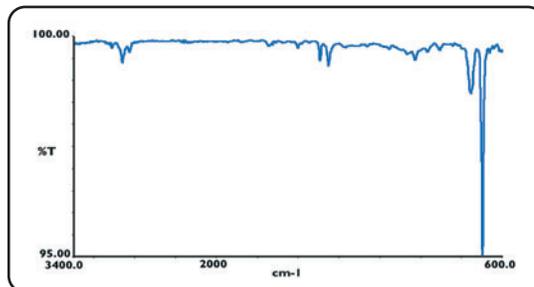
Small polymer pellet measured with a Germanium crystal



Small polymer pellet measured with a Zinc selenide crystal



Small polymer pellet measured with a Zinc selenide crystal



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