

Gateway™ ATR System

An advanced multi-reflection ATR system for the infrared analysis of solids, liquids, pastes and gels.



The Specac Gateway™ ATR system is a low cost multi-reflection horizontal ATR accessory.

High performance transfer optics and anti-reflection coated ZnSe crystals ensures unrivalled throughput and sampling sensitivity.

The rugged design, simple optical layout and Specac's unique

Benchmark™ base-plate system ensures optimum performance - no matter which instrument make or model you use.

The choice of three basic configurations gives the user the ability to select a complete package that best suits their needs while optional, additional top plates allow sampling flexibility and system expandability.

Features

- Replaceable crystals
- High optical throughput
- Purgable optics
- Extensive range of optional top plates
- Benchmark™ base-plate system

Applications

- Aqueous Solutions
- Liquids - static or flowing
- Pastes and Gels
- Polymer Films
- Fine Powders
- Quality Control
- Temperature sensitive samples
- Reaction Kinetics
- Education

• 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.

Gateway™ ATR Top Plate Options

Flow Through Top Plate



- Process control
- 550µl volume
- Removable crystal
- Variety of crystals available
- Reaction Monitoring

Thermostabilised Top Plate



- Reaction kinetics
- 550µl volume
- Removable crystal
- Stainless steel top plate and Kalrez spacer
- Heatable to 90°C

Heated Through Top Plate



- 11139 is a sub-ambient to 90°C version heated or cooled by thermocirculating fluid
- 11155 is an electrically heated top plate with dedicated temperature controller. This top plate is heatable to 200°C. Removable crystal

Two options available

Volatiles Cover



Prevents evaporation of volatile samples in trough top plates

Ordering information

Gateway™ Systems

GS11165 Gateway™ Combination system Includes: optics unit, Benchmark™ base-plate, ZnSe trough and flat top plates, sample clamp, purge bellows.

(Please specify spectrometer make and model)

Optional Top Plates

GS11116 550µl Flow through top plate with ZnSe 45° crystal

GS11118 550µl Thermostabilised Flow Through Top Plate with ZnSe 45° crystal

GS11139 Water Heated/Cooled Trough Top Plate with ZnSe 45° crystal

GS11155 Electrically Heated Trough Top Plate with ZnSe 45° Crystal & Automatic Temperature Controller (200°C) *(Specify 220V or 110V)*

Other Options

GS11127 5 Liter Thermocirculator for GS11118 and GS11139

GS11132 Volatiles Cover

Spares and Consumables

GS10707 Pair of Purge Bellows for enclosing Benchmark™ ATR beam path in spectrometer sampling compartment

GS11129 Gasket Replacement Kit for 11130, 11139 and 11155 Top Plates

GS11133 ZnSe Flat top plate

GS11145 Replacement ZnSe crystal for all top plates (except Flat, P/N GS11133)

GS11150 Kalrez Gaskets for 550µl Top Plates

GS11166 ZnSe Trough top plate

GS11167 Replacement Kalrez gasket for 11166 trough top plate

GS11170 Gateway™ optics unit only

GS11171 Sample Clamp

Other crystal materials available on request.