



Horizontal ATR Accessories



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

Features

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

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 standard dual top plate configuration offers the most versatile package while optional, additional top plates allow sampling flexibility and system expandability.

Applications

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

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 Trough Top Plate

Two options available



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

Volatiles Cover



Prevents evaporation of volatile samples in trough top plates

Ordering Information

Gateway™ Systems

(Please specify spectrometer make and model)

P/N11165 Gateway™ Combination system
Includes: optics unit, Benchmark base-plate, ZnSe trough and flat top plates, sample clamp, purge bellows

Optional Top Plates

P/N11118 550µl Thermostabilised Flow Through Top Plate with ZnSe 45° crystal
P/N11139 Water Heated/Cooled Trough Top Plate with ZnSe 45° crystal
P/N11155 Electrically Heated Trough Top Plate with ZnSe 45° crystal & Automatic Temperature Controller (200°C) (Specify 220V or 110V)

Other Options

P/N11125 Liquid Sample Pump
P/N11126 6 Liter (1.5 gals) Thermocirculator for 11118 and 11139
P/N11132 Volatiles Cover

Spares and Consumables

P/N10707 Pair of Purge Bellows for enclosing Benchmark ATR beam path in spectrometer sampling compartment
P/N11129 Gasket Replacement Kit for 11130, 11139 and 11155 Top Plates
P/N11133 ZnSe Flat top plate
P/N11145 Replacement ZnSe crystal for all top plates (except Flat, P/N11133)
P/N11150 Kalrez Gaskets for 550µl Top Plates
P/N11166 ZnSe Trough top plate
P/N11170 Gateway™ optics unit only
P/N11171 Sample Clamp

Other crystal materials available on request.