



# Spectronic News

SPECTRONIC ANALYTICAL INSTRUMENTS AN ISO 9001:2000 REGISTERED COMPANY

This newsletter gives you details on all of your accessory requirements for FTIR Spectrophotometers.

Spectronic also offer bi-annual and annual maintenance contracts and calibration services.

## FTIR ACCESSORIES & CONSUMABLES

### Crystal Windows for FTIR Cells

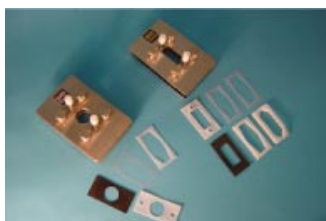


ATR Plates (Attenuated Total Reflectance)  
Manufactured from Infrared transmitting materials such as NaCl, KBr, KCl, CaF<sub>2</sub>, BaF<sub>2</sub>, KRS-5, CsI, ZnS, ZnSe, AgBr, SiO<sub>2</sub>, Ge and AgCl.

They are designed to fit most common types of sample cells, holders and reflectance accessories . Custom sizes are also available.

Standard most commonly used windows  
Rectangular windows NaCl (2 windows supplied, one of them drilled) 41 x 23 x 6 mm

### Mull & Liquid Cells



- Choice of path lengths
- Sealed or demountable cells
- Variety of window materials
- Static or Flow modes
- Luer fittings and stainless steel plugs

### FTIR KBr dies

This widely practised method consists of grinding and mixing a sample with dry KBr or KCl powder which is then compressed with an evacuable Die to produce a transparent Disc, since KBr and KCl are transparent from the ultra-violet well into the infrared. The method may be used for investigation in the UV and the Visible as well as the Infrared region.



Dies suitable for producing discs of 3,5,6,8,10,13 and 16mm diameter are available as standard within the range of the KB series.

All dies in the KB series are constructed entirely of Stainless Tool Steel, parts are precision machined. Pellets are optically flat and mirror polished. Tungsten Carbide Pellets and component parts can be supplied to special order.

Please note Dies are supplied with Black anodised sleeves.

**KBr die starter kit for 13mm & 16mm discs also available.**

shop @ [www.spectronic.co.uk](http://www.spectronic.co.uk)



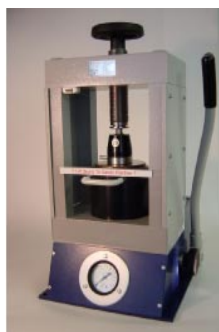
Spectronic Analytical Instruments have recently opened their on-line shop. Users can easily identify their consumable requirements and place a secure order on-line.

To find out more about any of the accessories featured on this newsletter for your spectrophotometer or any instrument in our range, log on to [www.spectronic.co.uk](http://www.spectronic.co.uk)

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## Laboratory Hydraulic Press



### LP-15 Fifteen Ton Range Analogue Readout Press

Precision engineered and designed to a high specification using quality materials. Primarily used for the preparation of solids material where KBr discs or pellets are produced for use in analysis. Also suitable for a number of applications where an extreme force is required to compress or form a substance into a pellet.

## Golden Gate™ Single Reflection Diamond ATR Series Mk1 1

Traditionally difficult samples such as those containing high concentrations of carbon black, require controlled penetration of the infrared beam. The high refractive index of Germanium, 4 at 1000cm<sup>-1</sup>, makes this ATR material an ideal choice for those samples. Optimum sensitivity is achieved using a 4x4 mm Germanium crystal cemented into a rugged stainless steel disk for maximum strength and support.

- 45° single reflection Germanium crystal
- Highest load for maximum sensitivity
- Built-in load limit prevents crystal damage
- Pressures up to 2 kbar (29,000 p.s.i., 720lb load)
- Excellent sample to crystal contact
- Quick release pressure bridge with safety interlock
- Working range 5000-550 cm<sup>-1</sup>



## Silver Gate™ ATR with ZnSe or Germanium Crystal



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.

- Rapid analysis of solids, liquids and pastes with little or no sample preparation
- Fast, efficient, reproducible sample measurement
- Flat crystal surface provides optimum sample contact and prevents point loading
- Rugged, fixed configuration design makes this accessory ideal for quality assurance
- High optical throughput provides fast and efficient sample measurement
- Open top-plate architecture for easy sample access
- Germanium crystal for highly absorbing samples

## Complete Window Polishing Kit



The **window polishing kit** contains all the essential materials required to clean and re-polish infrared transmission windows. Re-polishing can be achieved efficiently and economically with minimum skill.