



**LabService
Providers**

LABORATORY EQUIPMENT & INSTRUMENTATION
PRODUCT CATALOGUE

FTIR ACCESSORIES

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QUEST ATR ACCESSORY

- Reliable, high performance, single reflection ATR spectrometer accessory that sets the benchmark in performance and value.
- High throughput and extended wavelength capability.
- Designed for laboratory spectroscopic sample analysis in the mid and far infrared.
- Innovative optical design and durable monolithic diamond ATR crystal option.
- Optical design based around all reflective gold-coated optics and features Synopti-Focal Array technology with precision moulded aspheric mirrors.
- Various interchangeable ATR crystal pucks available: high throughput diamond; extended wavelength diamond; ZnSe; Ge; Silicon; Specular Reflectance.
- Each puck made from hardened stainless steel and held in place magnetically making them easily interchangeable without requiring additional alignment.



PEARL LIQUID ANALYSER

- High specification liquid transmission accessory designed for laboratory spectroscopic sample analysis in the near and mid infrared.
- Greatly reduces the time and difficulty of liquid sample analysis.
- Handles viscous samples with ease.
- Innovative Oyster Cell assembly allows for fast sample application, holds the sample in horizontal plane, and easy cleaning between samples.
- Injection access port at the top Oyster so the cell assembly does not have to be fully opened for volatile samples.
- Two windows for sample viewing allowing the user to ensure no bubbles have been trapped.
- Designed to provide a more accurate path-length than can be achieved using a traditional liquid transmission accessory (path-lengths repeatable to significantly less than 1µm).
- Available in six pathlengths, 25µm, 50µm, 100µm, 200µm, 500µm and 1,000µm.
- Oyster Cells offered as either parallel or wedged cells eliminate troublesome fringing patterns.
- Can be fitted with quickly interchangeable ZnSe or CaF2 windows.



INFRARED MICROSCOPY SURVEY IR

- Infrared microscope designed to deliver the ultimate user experience across a broad range of microanalysis techniques.
- Unique ergonomic design affords seamless interaction between operator and instrument.
- Onboard FTIR spectrometer detector.
- Research grade visual images via 5 mega pixel CMOS colour video camera, 2592 x 1944 max. resolution.
- 2X optical magnification yields .7µm/pixel at sample plane.
- Transmission, reflection, and oblique illumination modes.
- IR Reflection, Attenuated Total Reflection, Diamond and Ge, and transmission modes available.
- Variable IR mask - 2000µm, 250µm, 160µm, 100µm, or 60µm fixed diameter.
- eSpot™ software control of visual illumination modes, visible illumination intensity, ATR contact alert, IR mask selection, and IR transmission/reflection modes.
- Manual coarse/fine z stage focus adjust and condenser focus.
- Manual x, y stage fits 1" x 3" standard microscope slides.
- Accommodates commercially available transmission cells including diamond compression cells.





MANUAL HYDRAULIC PRESS

- FTIR, KBr, and XRF pellet press (hand pumped) suitable for a wide range of laboratory press applications.
- Available in 15 and 25 ton load configurations and can be configured as 0-1, 0-2, and 0-5 tons for low pressure applications.
- Compact with a small footprint – making it ideal for benchtop and glove-box laboratory applications.
- Easy-to-read, dual scale gauge calibrated in UK imperial tons and metric tons.
- Adjustable pressure control valve affords reproducible load for repetitive applications.
- Rigid steel construction.
- Protective safety shield as standard.

AUTOTOUCH HYDRAULIC PRESS

- Automatic FTIR and XRF press for increased throughput in sample preparation.
- Available in 8, 15, 25 and 40 ton load configurations.
- Easy to use with fully programmable, microprocessor-controlled, power-assisted hydraulics.
- Use the touch screen controls to program the load for guaranteed load consistency.
- Suitable for laboratory and industrial environments.
- Small footprint, ergonomic design and low noise characteristic.
- Protective safety shield as standard – no pressure is applied until the shield is lowered.



APEX QUICK RELEASE

- Automatic eject pellet die for easy and rapid XRF sample preparation.
- Ejects pellets without user intervention.
- 32mm and 40mm pellet sizes.
- Patented, automatic pellet eject sleeve enables the release of the finished XRF pellet, without the requirement to reset the die at an inverted position, at the middle point of the sample pressing cycle.
- Improves consistency and quality by reducing the risk of human error.
- Improves throughput by reducing time spent disassembling dies and removing pellets.
- When used in conjunction with the Autotouch hydraulic press, pellet release steps can be programmed to automatically and seamlessly occur in sequence without manual intervention.



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**Equipment & instrumentation for
a wide range of laboratory environments.**

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QUALITY
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NSAI Certified