

HUMAN HEALTH

ENVIRONMENTAL HEALTH

# PERKINELMER INSTRUMENT SOLUTIONS

**Analytical Sciences**  
Overview Brochure

  
**PerkinElmer**<sup>®</sup>  
*For the Better*

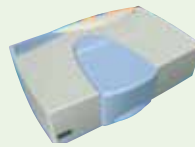
# Instrumentation

## Spectroscopy



### RamanStation 400 Dispersive Raman Spectrometer

A rapid and non destructive technique, PerkinElmer's Raman platform supports both bulk analysis and microscopic imaging. Solids, liquids, powders, gels, slurries and aqueous solutions can rapidly be identified in-situ.



### LAMBDA™ UV/Vis/NIR

High-performance UV/Vis and UV/Vis/NIR systems delivering superior data quality. Combines best in class performance and exceptional sampling flexibility with high productivity and CFR Part 11 compliance.



### Spectrum™ 100 FT-IR and FT-NIR Spectrometers

Experience the gold-standard for research materials testing and academia. High sensitivity, fast sampling speed and exceptional stability. PerkinElmer's knowledge, experience and responsive service and support, enable laboratories to achieve the highest quality and reproducible results with ease.



### Spectrum™ Spotlight

Spotlight provides superb sensitivity without tune or performance penalties, exceeding your performance expectations. It is ideal for laboratories not familiar with FT-IR or for those interested in generating information without having to invest substantial time to learning a new technology.

## Thermal Analysis



### DSC 8000/8500 Differential Scanning Calorimetry

Offers exclusive HyperDSC capability for unparalleled sensitivity and new insights into material processes. Providing sample information in seconds significantly increases laboratory throughput.



### STA 6000 Simultaneous Analysis

Combines the flexibility of Differential Temperature Analysis (DTA or DSC) with proven capability of thermogravimetry allowing to simplify data interpretation and generation of accurate, reliable results.



### DMA 8000 Mechanical Analysis

Provides a wealth of information on mechanical properties such as modulus, energy dissipation and material stability. Your laboratory can now analyse powders or other difficult to prepare samples.



### Hyphenated Technology

Hyphenation or hyphenated techniques couple two instruments together to gain insights into chemical structure previously unseen by either technique on its own. From DSC-Raman to TG-GC/MS there is simplicity in operation and servicing.

## Chromatography



### Clarus® GC Series

Simplicity designed in. The intuitive touch screen interface makes this an easy to use, reliable workhorse for any laboratory.



### Clarus® GC/MS series

Clarus GC/MS series deliver high sensitivity, high speed analysis through a combination of state-of-the-art electronics with the widest mass range and fastest scan rates. Expand the capabilities of capillary GC with PerkinElmer's Swafer technology. This innovative approach for flow switching and splitting applications delivers unparalleled application flexibility.



### TurboMatrix™

Our market leading headspace, headspace trap and thermal desorbers are the clear choice for any volatile sample analysis. Regardless of GC brand or model you can have access to PerkinElmer proven technology in sample handling and introduction.



### Flexar™ LC/UHPLC

Both conventional LC and UHPLC at your fingertips. Select from the widest range of LC instruments, operating modes and performance levels. Whether you are looking for a workhorse system for routine analysis or a high throughput system for maximum productivity, PerkinElmer have a solution.

## Atomic Spectroscopy



### Optima™ Series ICP OES

The Optima series delivers exactly the right level of analytical capacity, precision, flexibility and speed, no matter what your requirements. The Optima technology enables laboratories to lower their cost per analysis and run more samples per hour.



### NexION™ 300 series ICP-MS

As the ultimate tool in ICP-MS analysis, the NexION series provides uncompromised sensitivity and performance in all matrices. Low detection limits are readily achieved. The superior interference reduction by the Universal Cell Technology (UCT) and maximum analyte transmission provided by the system produces excellent signal to background ratios.



### AAAnalyst™ Series 200/400

The AAAnalyst 200/400 models are easy to use and easy to own; making it the perfect choice for any laboratory needing a reliable trouble free solution for metals analysis. The modular plug and play design ensures easy maintenance.



### AAAnalyst™ 600/800

The AAAnalyst 600/800 systems offer top-of-line technology and exceptional performance. The high-light-throughput optical system combined with a solid-state detector provides exceptional signal to noise performance to meet the most challenging applications.

### PerkinElmer consumables and supplies

PerkinElmer's comprehensive portfolio of consumables, supplies and accessories helps you meet your routine and most demanding measurement challenges by providing solutions that deliver reliable performance, productivity and value. Our technology expertise gives us a unique advantage in providing better solutions for your laboratory to meet the demanding testing and analysis challenges in areas such as Environmental, Pharmaceutical, Biological, Energy, and Food & Product Safety. When you order PerkinElmer consumables, supplies and accessories, you can enjoy the peace of mind, ease of ordering, and a flexible E-commerce system designed for your needs. PerkinElmer invests heavily to test and validate the quality of our products to ensure that you receive accurate, repeatable results, on-time, every time.

### Brownlee™ columns for HPLC and UHPLC – maximum flexibility and best separation results

A wide range of options for your LC analysis. Choose from the conventional or cartridge type, Microbore, MPLC – Ion Exchange, Preparative, Polar, Reversed Phase and Validate™ – NewGuard, Peco/Fast LC, VeloSep® or CHOICE™ columns, in addition to a new line of small sub-2µm particle size columns for UHPLC applications.

Benefit from over 25 years of manufacturing experience offering multiple phases, sorbents and support types to meet your most stringent analysis requirements.

### Velocity Series GC Capillary Columns – affordable performance

PerkinElmer Velocity GC columns are excellent for your daily test applications. If value and performance is important to your business, try Velocity columns, which are backed by 60 years of PerkinElmer's chromatography knowledge and experience.

### Global support and local response

Understanding our customers' needs, we realize the importance of rapid response and expert technical advice. We know it's vital that you have the most reliable service and support for your instrumentation, wherever your laboratory is located.

Our goal is to ensure your instrumentation is running at optimum levels at all times. With the availability of consumables and accessories coupled with technical support specialists, and a complete offering of service products, we are ready to give you the support you need to ensure continued success.

For more information contact our authorized distributor:

Life and Analytical Science (PTY) Ltd.  
Gauteng, South Africa  
Telephone: +27 11 794 4430  
Fax: +27 11 794 2160  
Email: [sales@perkinelmersa.co.za](mailto:sales@perkinelmersa.co.za)  
[www.perkinelmersa.co.za](http://www.perkinelmersa.co.za)



## For the Better

At PerkinElmer, we're working to improve the health and safety of people and their environment. From safer water to cleaner air to healthier babies, our solutions touch every part of your life.

PerkinElmer Inc  
Chalfont Road  
Seer Green  
Beaconsfield  
Bucks HP9 2FX  
[www.perkinelmer.com](http://www.perkinelmer.com)  
[cc.uk@perkinelmer.com](mailto:cc.uk@perkinelmer.com)



For a complete listing of our global offices, visit [www.perkinelmer.com/ContactUs](http://www.perkinelmer.com/ContactUs)

Copyright ©2010, PerkinElmer, Inc. All rights reserved. PerkinElmer® is a registered trademark of PerkinElmer, Inc. All other trademarks are the property of their respective owners.

008846\_06