



Lambda Advanced Technology Ltd

# ANALYTICAL INSTRUMENTATION

EQUIPMENT | CONSUMABLES | SERVICE



**GAMBICA**



# EXPERTS IN ANALYTICAL INSTRUMENTATION

Lambda Advanced Technology is a leading UK supplier of a wide range of high quality analytical instrumentation, accessories and consumables used in universities, hospitals and throughout industry.

This instrumentation, from some of the world's leading manufacturers, is supported by LAT's comprehensive range of post-sales services to ensure that customers get the most from their equipment whether it is used in routine quality control or the most demanding research environment.

The combination of ISO9001 accreditation and a team of fully trained engineers ensure that customers receive first class technical support. LAT can provide service contracts, calibration & certification services and instrument validation (IQ/OQ and CFR21 Part 11) as well as training and applications advice.

## Service contracts

A choice of standard service contracts is available to meet customers' differing needs and budgets. These range from simple preventative maintenance contracts through to 'Premier Plus' contracts with unlimited call outs within 24 hours for those with instruments working 24/7. Special support packages can also be devised to cover multiple installations or particular applications.

## Calibration and certification

With accurate calibration an essential requirement for high quality analytical results, LAT can provide high purity, fully traceable standards for use with the instruments supplied. Expert engineers can provide a full calibration and certification service for complete confidence in equipment performance.

## Instrument validation

Instrument validation is an integral part of many analytical procedures and protocols. LAT engineers are fully qualified to provide support for IQ/OQ and CFR21 Part 11 requirements. Instrument performance can be verified to manufacturers' default thresholds. All servicing and validations are supported by documentary evidence for audit purposes.

# HITACHI

## Inspire the Next

Hitachi has a well-deserved reputation for producing spectrophotometers of outstanding quality. High performance optics ensure good sensitivity and accurate results across teaching, research and routine analysis applications.



Full product details can be found on the LAT website. Hard copy brochures are available on request.

Visit [www.lambda-at.com](http://www.lambda-at.com) to find out more.



### UV/Vis

Hitachi offers UV/Vis spectrophotometers from entry-level ratio beam instruments to research grade double beam double monochromator models. Extensive measurement capabilities make them suitable for a host of applications.



### UV/Vis/NIR

The research grade U4150 UV/Vis/NIR spectrophotometer accommodates solids and liquids in both transmission and reflection modes. Multiple detectors in the integrating sphere and the high-performance prism-grating double monochromator system ensure highly accurate measurements.



### Fluorescence

Characterised by high sensitivity and rapid scanning the fluorescence spectrophotometer range extends to research grade performance. They feature horizontal beam geometry for use with small sample volumes. Photometry, wavelength scanning and time scanning capabilities, 3D time scans and a wide dynamic range provide comprehensive measurement options.



### Atomic Absorption

The ZA3000 Series of Atomic Absorption spectrophotometers deliver exceptional sensitivity and detection limits for a wide range of samples. The real-time dual detector polarised Zeeman background subtraction method virtually eliminates background signal contributions and gives extremely stable baselines with low background noise.

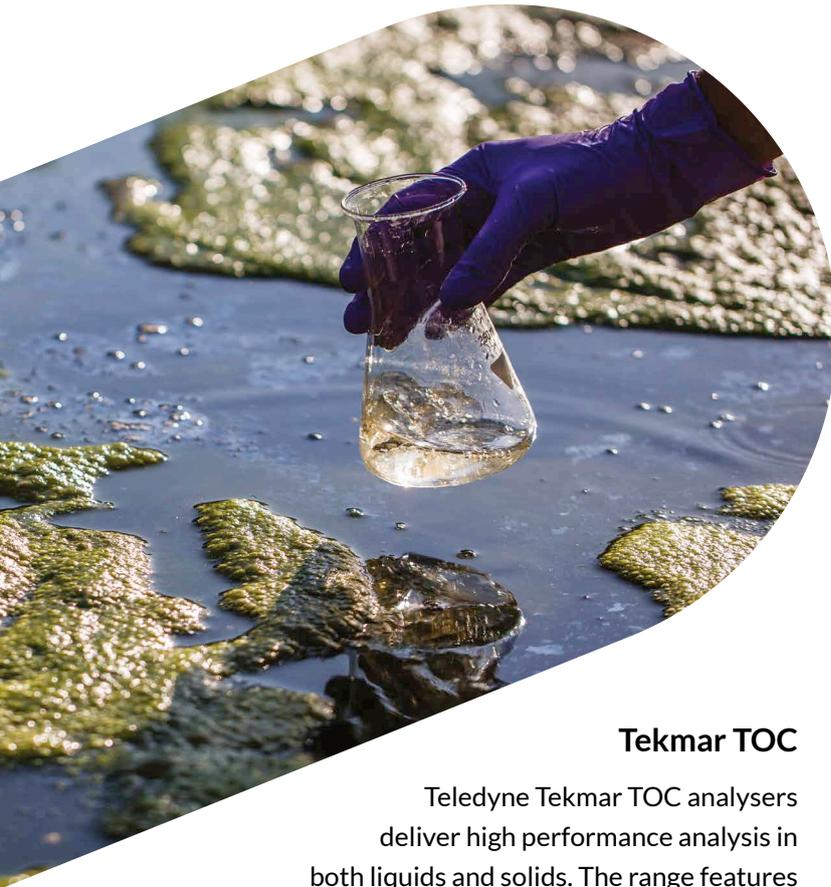


# TELEDYNE INSTRUMENTS

*Leeman Labs*

A Teledyne Technologies Company

Teledyne Leeman Labs and Teledyne Tekmar are highly respected names in their respective fields.



## Leeman Labs Mercury

Teledyne Leeman Labs offer fully automated mercury analysers for the analysis of solids, semi-solids and liquids. A choice of well-proven cold vapour atomic absorption (CVAA) or cold vapour atomic fluorescence (CVAF) analysis methods is available in accordance with the specific regulatory method (EPA, ISO, ASTM etc) required for the application.

## Leeman Labs ICP

Prodigy ICP spectrometers offer a choice of Radial, Axial or Dual View configurations to optimise results from a specific sample matrix. Solid state detector technology gives true simultaneous measurement, full wavelength coverage and full spectral access with the emphasis on resolution, stability and detection limits for reliable results.

## Leeman Labs DC Arc

The Prodigy DC Arc performs elemental analysis of an enormous range of difficult sample types in their original form without the need for sample digestion. These include ceramics & glass, metal oxides, carbides, borides, refractory powders and many more.

## Tekmar TOC

Teledyne Tekmar TOC analysers deliver high performance analysis in both liquids and solids. The range features either combustion or UV/Persulphate analysis with highly sensitive Non-Dispersive Infrared (NDIR) detection methods. Applications range from high purity water used in the pharmaceutical industry to municipal and industrial wastewater.





**Products + Instruments**  
Experts in Lab Equipment



Utilising the expertise provided by the Berghof Fluoroplastics Division, Berghof sample dissolution systems feature reactor liners or reaction vessels manufactured from isostatically moulded TFM™ PTFE which gives exceptional mechanical stability and resistance to chemical vapours.



### **Speedwave Entry microwave digestion**

This easy to use, safe and cost-effective system guarantees exceptional digestion quality at moderate temperatures and pressure ranges in routine analysis, education and training. Users can set up their own temperature programs or make use of the many pre-installed applications including DIN and EPA standards.



### **Speedwave Xpert microwave digestion**

Speedwave Xpert features two magnetrons with a total output of 2,000 W power for complex digestions of difficult sample material at high temperatures and pressures. Patented optical measurement provides instantaneous temperature and pressure measurement directly in the vessels. Digestion programs can be selected from a comprehensive application database.



### **Pressure digestion**

The DAB series of closed acid pressure digestion systems are designed for difficult samples or large sample masses and can run overnight, if needed. The higher pressure range (up to 200 bar) compared to microwave units allows larger sample quantities to be digested.



### **High pressure reaction vessels**

The BR-Series of high-pressure reactors offer a unique modular design with flexible combinations. These include systems for gas or liquid sampling as well as liquid injection under operating pressure. Products range from a small-volume, high-pressure reactor of 25 ml to a pilot plant scale of 5.5 l.

Full product details can be found on the LAT website. Hard copy brochures are available on request.

Visit [www.lambda-at.com](http://www.lambda-at.com) to find out more.



Inficon is a leading provider of innovative instrumentation, critical sensor technologies, and advanced process control software used in a wide range of markets. Its novel portable GC-based instruments can be used in many alternative energy, petrochemical and environmental applications.

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### Hapsite GC/MS

HAPSITE® ER is a portable GCMS that can deliver qualitative and quantitative lab-quality results in the field, in less than 10 minutes. It can identify and quantify volatile organic compounds (VOCs), toxic industrial chemicals (TICs), toxic industrial materials (TIMs), chemical warfare agents (CWAs), and select semi-volatile organic compounds (SVOCs) in parts per million - parts per trillion concentrations.

### Micro GC Fusion

The Micro GC Fusion gas analysers can measure fixed gases, C1 to C12 hydrocarbons and olefins, VOCs, light oxygenates, sulphur compounds and other gases from ppm to percentage concentrations. Fast throughput is achieved by parallel analysis of the sample and fast temperature ramping, using up to four independently programmable GC modules in a single unit.





TSHR analysers have a history that stretches back to Euroglas B.V. in Delft, The Netherlands, in 1990.



TSHR combustion elemental analysers are used extensively in industrial, petrochemical and environmental applications for the quantitative determination of trace levels of total nitrogen, sulphur and chlorine in a wide range of solid, viscous, liquid, gas and LPG samples. Modular construction and a host of accessories such as autosamplers means that instruments can easily be configured for single or multi-element analysis. TSHR combustion analysers meet the requirements of many internationally recognised test methods.



Full product details can be found on the LAT website. Hard copy brochures are available on request.

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## CONSUMABLES

Lambda Advanced Technology can supply a wide range of consumables to keep your analytical equipment fully operational:

- Cells
- Lamps
- Graphite AA parts



For advice and support call us **020 8090 3462** or visit [www.lambda-at.com](http://www.lambda-at.com).

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The logo for Lambda Advanced Technology (LAT) consists of the letters 'LAT' in a bold, blue, sans-serif font. The 'L' and 'A' are connected, and the 'T' is slightly offset to the right.

**Lambda Advanced Technology Ltd**

**Lambda Advanced Technology**

PO Box 375, Wembley, Middlesex, HA0 3ZW, UK

Call **020 8090 3462**

Email **[sales@lambda-at.com](mailto:sales@lambda-at.com)**

Visit **[www.lambda-at.com](http://www.lambda-at.com)**

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