Guyline (Asia) Ltd.

GUYLINE (ASIA) LIMITED

Direct Analysis in Real Time (DART)
- Mass Spectrometer -

ESS – Electron Impact Mass Spectrometer - UK

Provides portable and lab-based Electron Impact Mass Spectrometers for dedicated applications:

- CatalySys: Two fused silica inlets as standard. Events can be monitored before and after the catalytic process.
- EcoCat: Portable instrument ideal for needs to move the system between processing points.
- PharmaSys: Online monitoring of residual solvent vapours & gases found in pharmaceutical applications.
- Reactorr-ReacTorr-S: A highly cost effective solution in monitoring clean rooms air (semiconductor processing)
- Reactorr-ReacTorr-V: A highly cost effective solution in monitoring (ambient to 10^{-9} mbar)

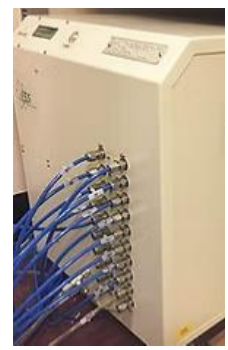




Catalyst Applications: CatalySys & EcoCat **PharmaSys,** **ReacTorr -S & -V** **GasTrace**

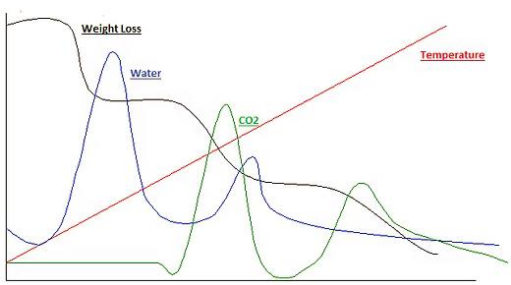
- GasTrace: specifically designed for monitoring harmful residuals in pure gas & gas mixture.
- UlteraTrace PPT: Ambient Air VOC's & Fugitive Emissions Monitoring (with Thermo-desorption option)
- FermenTorr: Measurement of dissolve or evolved gases and vapours in liquid samples.
- EnviroSafe: To detect, track and monitor real time accidental emission of hazardous substances, and with multiple sample point capability

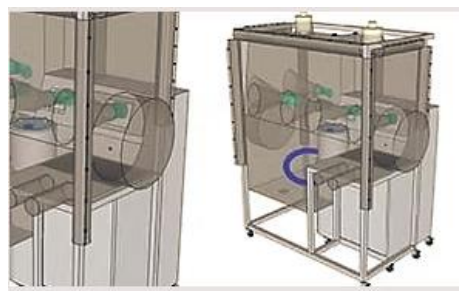


UltraTrace PPT **EcoSys;** **Water Analysis** **EnviroSafe** **FermenTorr**

- EcoSys: A portable environmental monitoring instrument that allows our clients to operate their gas analysis application practically anywhere. (optional accessory is available for liquid analysis)
- ThermaSys: Interfaces with TGA & DSC applications
- Containment / Barrier Isolation Solutions: Ideal for Pharmaceutical processing






ThermaSys **Containment Monitoring** **Mobility**

Dedicated Hardware for Different Applications

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Direct Analysis in Real Time (DART)
- Mass Spectrometer -

Kore - Portable EI-TOFMS - UK

MS-200 is a portable, battery-powered electron ionisation mass spectrometer for gas analysis – entirely contained in a suitcase. It provides

The MS-200 transports the advantages of mass spectrometry – good specificity for the identification of unknowns, versatility, accuracy and sensitivity – from the laboratory into the field. The MS-200's double membrane inlet concentrator allows a wide range of gases to be identified and measured from the low ppb range up to % levels.

EI is described as hard ionisation; the excess energy in the collision produces many fragment ions. The 'fingerprints' or patterns of molecular and fragment ions can be related to extensive databases such as NIST and allow for mass spectral deconvolution. EI ionisation is most commonly used for ionisation of VOCs and SVOCs.

MS200

Kore - Compact EI-TOFMS - UK

It is a modular, computer-controlled, time-of-flight mass analyser with bench-top design. It is easily transported in a car or van.

Ease of operation and ability to produce stable long-term analysis of gases at pressures from millibars to 10 bars makes the equipment well suited to process monitoring as well as catalysis studies and reaction kinetics research. With features:

- Flexible to Transport
- Special design Gas Inlet System
- High Time Resolution Mode
- Process Monitor Mode

Compact EI-TOFMS

Kore - PTR-TOFMS - UK

Compact PTR-TOFMS 3c is a new soft chemical ionisation tool for sensitive analysis of VOCs in ambient air. This new spectrometer can monitor all masses in parallel, allowing the maximum amount of information to be collected. The Kore PTR 3c has been developed to be transportable and can be taken on-site (mains power required), with full computer control of instrument parameters.

Models 3c PTR-TOFMS

Models 2e PTR-TOFMS

PTR-TOFMS 2e is designed specifically for research use. It delivers:

- High sensitivity with low detection limits for analyte species
- High mass resolution for unambiguous identification of chemical species
- A rugged, transportable instrument for use in field work

PTR is a soft ionisation method utilising H_3O^+ ions to transfer protons to all compounds with a higher proton affinity than water. General components in air are not ionised by the hydronium beam, but most volatile organic compounds (VOCs) are ionised by H_3O^+ with little or no fragmentation. Other molecules such as hydrogen sulphide (H_2S), hydrogen cyanide (HCN) and ammonia (NH_3) can be detectable by this H_3O^+ -based PTR method.

Direct Analysis in Real Time (DART)
- Mass Spectrometer -

Bayspec - Portable Mass Spectrometer - USA

Designed for in-field use, the mass spectrometers require minimal maintenance, no consumables or sample preparation, and user friendly. Instruments are compatible with almost any atmospheric real-time ionization sources to acquire measurement acquisitions of vapors, liquids, and solid samples to fulfill nearly every application need.

Continuity™ Portable MS

Portability™ - miniature portable mass spectrometer was designed to provide master quality and reliable analysis outside of the laboratory. Portability™ strips out the cost of and logistics chore for lab test outsourcing. Requiring no sample preparation and its compatibility with almost any ambient ionization source. This self-contained design offers a simple solution for a wide range of applications, such as vapors/ liquids/solids, CWAs/TICs, biological/biomedical, forensic, agriculture, food safety, security, and explosives. The user-friendly interface, rapid deployment, and real-time results make Portability a great solution for fast and dependable field analysis for any user in any location.

Portability™ Miniature MS

Delivering ultimate mobility and ease of use, Both Portability™ and Continuity™ are compatible with ambient ionization techniques, which do not require any gases or tanks to run measurements. Making it ideal for field analysis. Providing flexibility to perform applications using various ionization techniques, the external ionization sources can also easily be swapped in less than a minute.

BaySpec offers many types of ionization sources to use with the Portability™ and Continuity™ portable mass spectrometers. These are TD-ESI, ESI, TD-APCI, Swab-APCI, APCI, DBDI, and more....

Ionization Source Platform

Portability™ and Continuity™ are compatible with ambient ionization techniques, which do not require any gases or tanks to run measurements. Making it ideal for field analysis, ambient ionization does not require sample preparation; sample introduction quick, direct, and easy to perform by anyone in any location. Providing flexibility to perform applications using various ionization techniques, the external ionization sources can also easily be swapped in less than a minute.

Dielectric Barrier Discharge Ionization

APCI (Atmospheric Pressure Chemical Ionization)

Swab-APCI

Air Monitoring (AM-APCI)

Photo Ionization

Multimodal

ESI (Electro Spray)

Customized

Direct Analysis in Real Time (DART)
- Mass Spectrometer (Magnetic Sector) -

GUYLINE (ASIA) LIMITED

Compact Scientific Systems - IRMS Isotope Ratio Mass Spectrometer - UK

The IRMS Instrumentation for the Results You Are Looking For

From breath test studies and food authenticity to oil/gas exploration and bioarchaeology, our portfolio of powerful IRMS instruments and software are used in a wide range of applications around the world.

IDMicro Breath

The most compact & Cost-Effective Isotope Ratio Mass Spectrometer for Breath Analysis

The most compact, convenient and easy to use breath test instrument available. Quickly and accurately detect Helicobacter pylori. Analyse liver function, lactose intolerance, pancreatic function, fat malabsorption, bile acid circulation and gastric emptying with the IDMicro Breath. Suitable for a wide range of applications, the IDMicro Breath evaluates breath gas with simplicity, selectivity and speed.

IsoLogger Portable IRMS

On-Site Gas Chromatograph Combustion Isotope Ratio Mass Spectrometer

Get accurate, real-time isotope analysis wherever you need it with the IsoLogger Portable IRMS. Designed for on-site natural gas exploration, this compact GC Combustion IRMS delivers precise carbon isotope ratio measurements in minutes. Whether you're identifying gas sources, assessing maturity, or distinguishing between biogenic, mixed, or thermogenic origins, the IsoLogger provides reliable field data with speed and accuracy.

Isolab IRMS

Compact, highly sensitive, small-radius gas chromatograph IRMS

The IsoLab delivers powerful analytical performance with flexibility and ease of use, making it ideal for a range of scientific applications. This compact and highly sensitive small-radius gas chromatograph IRMS provides fast and accurate results, ensuring precise and reliable analysis every time.

Guyline (Asia) Ltd.

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