



Guyline (Asia) Ltd.

- Environmental Analysis (Water) -



GUYLINE (ASIA) LIMITED

VWMS - On-Line Real Time Microbial Monitoring - Austria

THE COLIMINDER MEASURES MICROBIOLOGICAL QUALITY OF ANY TYPE OF WATER. IT IS APPLICABLE ACROSS THE ENTIRE WATER CYCLE. System is specially designed for Real Time Monitoring, Early Warning, Process Feedback, and Process Control in water quality analysis.

15 minutes test results for water samples, such as:

- Drinking Water
- Bottled Water
- Process Water
- Surface Water
- Waste Water
- Filter membrane Integrity



Mantech - Auto BOD Analyzer - Canada

A variety of biochemical oxygen demand (BOD) systems to best suit the needs of your laboratory are available. Whether you need manual or automated, big or small, simple or complex. This Automated BOD analysis systems are robust, come with easy to use software, and provide accurate results that stand the test of time. This system creates the ideal BOD solution for your laboratory.



The system's 10-minute BOD estimation via PeCOD allows technicians to quickly estimate the BOD of incoming samples, greatly reducing overall bottle numbers by running only one or two dilutions for each sample while also guaranteeing a valid result. As they get their estimated results, they simply pipette sample volume into the standard BOD bottles according to the required dilution. PeCOD and BOD software packages run simultaneously so results can easily be viewed and used for setting up the BOD runs. Once the bottles are placed, the operator just clicks GO, and the Automated BOD system prepares each sample and performs initial readings. PC-BOD software tracks results and reminds operators when samples are due for final readings.

AquaRead - Portable Water Analyzer - UK



Corrosion Resistant
Rugged titanium body for corrosion resistance

4 Ring stainless steel conductivity
Measures conductivity which can be output as either absolute, corrected to 25°C or corrected to 25°C. Also calculates salinity value

Extended nose cone
Nose cone offers protection and is an integral part of the conductivity sensor

Water Level Sensor



Multi-Parameter Water Analyzer & Probe

- Environmental Analysis (Liquid Sampling) -

Watersam - Water & Liquid Samplers - Germany

Our premium sampling solutions is designed for a wide variety of applications in the water and wastewater sector. All systems are modular, highly adaptable, and equipped as standard with time-, volume-, and event-proportional sampling – ensuring reliable results in every situation. The product range is divided into three key segments:

Stationary samplers are built for long-term use in wastewater treatment plants or industrial plants. With rugged stainless-steel housings, advanced sampling technologies, and intelligent controllers, these systems are designed for continuous, dependable performance. Features like multi-bottle distribution, integrated cooling, and sensor connectivity are available to meet specific process requirements.

Portable samplers are the flexible choice for temporary deployments for remote locations. Lightweight, battery-powered, and easy handling designs offer sampling functions – including time-, volume-, and event-triggered sampling – with options like refrigeration, data logging, and communication interfaces.

Customized solutions are developed to meet unique challenges – such as extreme environments, aggressive media, or complex automation needs. From special housing materials to tailored pump systems and integrated control architecture, system are built to fit customer's task perfectly.

As a trusted specialist in automatic sampling technology, we stand for precision, reliability, and real-world practicality – with solutions that perform wherever they're needed: stationary, mobile, or fully customized.



Mobile Sampler



Mobile Sampler



Stationary Sampler



Sampler with Sensor



Self-emptying Sampler



EX II Interior Sampler



Sampler for River Water Monitoring



Sampler for Scientific Research Ship



Sampler for extreme ambient temperature (-40°C – +55°C)



Sampler for Highly Corrosive Conditions



Sampler for Petroleum Industry



Sampler for Highly Volatile substances

- Environmental Analysis (Soil) -

NC Technologies - Automatic Elemental Analyzer for Total Carbon & Nitrogen in Soil - Italy

This is an automatic elemental analysis techniques based on “flash combustion” and chromatographic separation. The combustion gases CO₂ and N₂ are separated in a GC column maintained at a user determine constant temperature. The detection and determination of the concentrations of the various elements is carried out by a thermal conductivity detector (TCD).

- Ability to determine TC, TIC and TOC in solid samples
- High sensitivity with accuracy and precision in all applications
- Detector does not require reference gas
- Powerful software provides low operation and management costs
- Touch-screen display for easy settings
- Consumables status monitoring for optimized catalyst usage
- Electronic / pneumatic / manual samplers are available.
- Performs stable isotope analysis with Mass Spec or other detectors



Elemental Soil (N & C) Analyzer

NC Technologies - Respirometer - Italy

Landfilling Solid Waste causes severe environmental problems such as biogas generation, VOC emission, hazardous leachate, and other toxicities because of the presence of the biodegradable organic fraction. These negative impacts make landfills unsustainable. Nevertheless, landfill is the most used method to manage solid wastes.

The measurement of respirometric activity (production of biogas/greenhouse gases) is one of the most applied methods.

Respirometer measures uptake of O₂ or CO₂ production under standardized aerobic conditions, by microorganisms.



Respirometer

Z-SPEC - HD XRF Soil Analyzer - USA

If soil samples are contaminated with heavy metals of very low ppb concentrations, you have to use expensive equipment such as ICP-MS. But these are not designed for on-site analysis.

When X-ray is irradiated to a sample, electrons are excited to higher energy level, and then fall back to their ground state and release fluorescence signals. These energy signals are characteristics of a particular sample and the strength of the signals are related to the concentration of these specific elements. Therefore, XRF is both a quantitative and qualitative analyzer.

For heavy metal contamination in soil, we care about sub-ppm level. A special designed irradiation mechanism is needed. This is known as **High Definition XRF (HDXRF)**.



HD XRF for Soil

Trace₂O - Comprehensive Soil & Water Analysis Solutions - UK

This portable soil/water analyzer is the perfect tool needed for thorough and precise heavy metals testing soil analysis. Available in both portable versions, this kit is ideal for detecting bioavailable heavy metals in soil using proven digestion technology.

Key Features:

- **Versatile Applications:** Suitable for both field and laboratory settings.
- **Comprehensive Detection:** As (III + V), Cd, Cu, Hg, Pb, and Zn.
- **Innovative Digestion System:** Simulates the release of bioavailable heavy metals.
- **Portable and Durable:** Field kit is lightweight and includes a waterproof case.
- **Complete Lab Solution:** Laboratory kit offers extensive digestion equipment and consumables.



Portable Soil /Water Analyzer

- Environmental Analysis (Ambient Air) -

TSI / Casella - Aerosol Science & Technology - USA

If you are doing **serious** Aerosol Researches, SMPS (Scanning Mobility Particle Sizing System) from TSI is your first choice!

But on the other hand, if you want to apply your high-quality research results to our daily life, Casella's personal air sampler would be the **perfect** tool for you.

Products include:

- Flow Meter, Flow Sensor, and Flow Analyzer
- Noise Dosimeters and Sound Level Meters
- Indoor Air Quality Meters / Instruments
- Flow meters, sensors, and Analyzers
- Aerosol Generators and Dispersers
- Particle Counters and Detectors
- Ventilation Test Instruments
- Aerosol and Dust Monitors
- Respirator Fit Testers
- Aerosol Generators
- Particle Sizers
- **Many more....**



Personal Air Sampler



Heat Stress Monitor



Environmental Particle Counter



Sound Level Meter



Sub-micron Aerosol Generator



Respirator Fit Tester



Aerodynamic Particle Sizer



Aerosol Monitor



Air Capture Hood



SMPS System



Fast Mobility Particle Sizer



Aerosol Generators & Dispersers



Digital Flow Meter



IAQ & Velocity Meters

- Environmental Analysis (Ambient Air) -

MSP / Casella - Aerosol Science & Technology – USA & UK

MSP's cascade impactors provide precise size-segregated particle collection for aerodynamic diameters ranging from 10 nm to 10 µm. Available in configurations with 3 to 13 stages and flow rates of 2, 10, 30, or 100 L/min, these impactors enable detailed particle size distribution analysis. The number of stages directly influences size resolution, ensuring high-quality data for quantitative analysis.



Dedicated Cascade Impactors

The **MOUDI™** (Micro Orifice Uniform Deposit Impactor) II impactors feature rotating stages, enhancing sample uniformity by minimizing particle bounce and re-entrainment. This innovative design maximizes particle mass collection and improves the accuracy of subsequent analysis, making them ideal for critical research and industrial applications.

Microdust Pro is a rugged, hand-held, data logging instrument for the real-time measurement of airborne dusts and aerosols. It can be used for spot checks and walk-through surveys with the advantage of seeing instantly when and where excessive dust levels are occurring.



Boundary Monitor, Microdust Pro, Inhalable Sampler

Boundary Monitoring Systems measure Particulates, Windspeed & Direction, Vibration, Noise.

Inhalable sampler is designed for monitoring workplace exposure to hazardous substances.

Cantium Scientific - Bio-Aerosol Sampler – UK

Depending on model variant, the MicroBio MB1 bioaerosol sampler is capable of using both a 90 mm Petri dish (400 and 220 hole head versions) or 55 mm contact plates (only 220 hole head version). Using standard readily available consumables at low cost with a variety of media makes the MicroBio MB1 an economical instrument to use. The MicroBio MB1 bioaerosol sampler is an invaluable device for use in food production and packaging, dairy, bakeries, indoor air quality, HVAC and education.



MicroBio MB1 (L) & MB2 (R) Bioaerosol Sampler

Bioaerosol samplers are vital equipment for use in bioaerosol research, clean rooms, pharmaceutical validation and throughout healthcare wherever air hygiene is vital. Designed to meet the requirements of ISO14698 and ISO17141, the MicroBio MB2 Bioaerosol Sampler has a host of features making it ideal for use in such applications.

Validation Kit is developed specifically for use with the 100 litre per minute MicroBio MB1 and MB2 bioaerosol samplers, this validation kit is easy and simpler to use. The kit requires calibration only every 5 years and is manufactured to exacting dimensions, referenced to national standards. This will keep your operating costs to a minimum.



Validation Kit

- Environmental Analysis (Ambient Air) -

DMT – Ambient Air, Climate & Weather Research – USA

The Mini Micro Pulse LiDAR (Mini Micro Pulse LiDAR) is a small form factor, low-power, elastic backscatter **LiDAR**. This ground-based instrument determines the altitude of clouds and to detect atmospheric aerosols. Pulses of energy are transmitted into the atmosphere; the energy scattered back to the transceiver is collected and measured as a time-resolved signal, thereby detecting clouds and aerosols in real time.

Cloud Condensation Nuclei Counter (CCN Counter) measures the count and size of individual aerosol particles that can form into cloud droplets. Its fast response time allows use in either airborne or ground-based stations. The CCN is available in single-column (CCN-100) or dual-column (CCN-200) versions. The CCN-100 is used for measurements of a single supersaturation, whereas the CCN-200 enables the user to measure two supersaturations simultaneously – a critical capability for droplet activation kinetics of aerosols and split sample experiments comparing the response of aerosols.

GFAS-DPOL (Ground-based Fog & Aerosol Spectrometer with Polarization Detection) combines a high-sensitivity forward & back scatter intensity particle size measurement with a polarization detection measurement and a wind direction and wind-speed measurement.

SP2-XR (Single Particle Soot Photometer – Extended Range) delivers accurate, real-time, size-resolved single particle measurements of black carbon mass and size with direct output suitable for monitoring applications.

PAX (Photoacoustic Extinctionmeter) is a sensitive, high-resolution, fast-response instrument for measuring optical aerosol properties relevant for monitoring climate effects and atmospheric load.

UHSAS-G (Ultra-High Sensitivity Aerosol Spectrometer) is an optical-scattering, laser-based aerosol particle spectrometer for sizing particles in the 0.06 μm to 1 μm range.

CCP (Cloud Combination Probe) is multipurpose particle spectrometer provides aerosol particle and cloud hydrometeor size distributions from 2 μm to 50 μm , precipitation size distributions from 25 μm to 1550 μm , and liquid water content from 0.05 g/m^3 to 3 g/m^3 .

CDP-2 (Cloud Droplet Probe) measures particles in the 2 μm to 50 μm range with the compact cloud particle spectrometer.

PCASP-100X (Passive Cavity Aerosol Spectrometer Probe) is an airborne optical spectrometer that measures aerosol particles in the 0.1 μm to 3 μm range.

Wideband Integrated Bioaerosol Sensor (WIBS-5) is used to detect and classify particles as biological or non-biological origin in order to identify biological particles that can be detrimental to human health.



Mini Micro Pulse LiDAR



CCN Counter



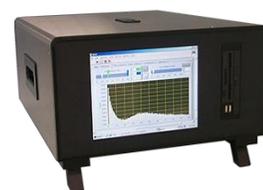
GFAS-DPOL



SP2-XR



PAX



UHSAS-G



CCP



CDP-2



PCASP-100X



Bioaerosol Sensor

- Environmental Analysis (Ambient Air) -

NC Technologies - Ambient CO₂ Sampler & Analyzer - Italy

Sampler: Allows any operator to collect atmospheric pure CO₂ on-site. This unit is compact, lightweight, rechargeable and can be connected to the 8070 Air CO₂ for stable and radiogenic carbon isotope (IRMS) analysis.

- High flow pump for rapid sampling, with Fast Rechargeable battery
- Fast & easy sample tube change
- Easy trap replacement
- Portable: 14 x16 x 40 cm, 3 kg; ready to use



PSM Air CO₂

Ambient Air CO₂ Analyzer: 8070 Air CO₂ integrates the PSM Air CO₂ Sampler, Elemental Analyzer concentrator and purifier of CO₂ contained in atmospheric air. Therefore, through its use, it is possible to obtain purified CO₂ and introduce it into mass detectors to determine the isotopic ratio $\delta^{13}C$ or quantify the content of ¹⁴C, a radioactive isotope of carbon.

- Fully automated analysis system
- High sensitivity, accuracy and precision
- Detector requires no reference gas
- Powerful software for viewing and processing results from a computer
- Touch-screen display for easy management of settings
- Easy connection to mass spectrometers and other detectors for stable isotope analysis
- Low operating and management costs



Air CO₂ Analyzer

ppq sense - ¹⁴C Analyzer - Italy

Carbon isotopes are present in every living thing. ¹²C is stable and present ~99%, ¹³C is about 1%. ¹⁴C (radiocarbon) is present in very small amounts of ~1ppt and has a half-life of 5,700 years. **Radiocarbon is a label provided by nature for the biogenic origin of all carbon-containing materials.**

Radiocarbon does not exist in fossil origin because it has completely decayed. **Therefore, radiocarbon can be used to discriminate the fossil fraction in materials (solid and gas).**

¹⁴C SCAR is able to perform radiocarbon (¹⁴C) analysis on various material (fabrics, plastics, fuels, solvents) with far greater precision and versatility.

Emission from fossil fuels can be tracked and quantified directly by measuring the ¹⁴C content of CO₂ in the air. The lower the content, the greater the contribution of fossil fuel combustion

¹⁴C-SCAR is an instrument capable to perform this measurement in real-time. Its rapid measurement routines, in combination with an innovative automatic extraction process for atmospheric CO₂ provides a quasi-continuous air monitoring capability.

This can help control emissions from fossil fuels that generate a net increase in atmospheric CO₂, or it can be used to monitor the safety of area at risk; ¹⁴CO₂ monitoring around nuclear power plants and waste repositories can ensure safety from radioactive hazards to both workers of nuclear site and population living in their vicinity.



¹⁴C Analyzer

- Environmental Analysis (Ambient Air) -

Aero Laser - HCHO, NOx & CO Analyzers – Germany

AL4021 HCHO Analyzer - Precision in Every Molecule - This Analyzer emerges as a vital tool to meet the rigorous demands of modern industries, health and safety and environmental monitoring. It combines unparalleled sensitivity and precision with ease of use, offering an unmatched solution for monitoring formaldehyde emissions and concentrations in both gases and liquids. With its calibration feature, users are guaranteed consistent and reliable results, essential for critical quality and emission control.

AL5005 ultra-fast CO Analyzer - Precision at Speed - 100.0 ms response time of this ultra-fast CO analyzer represents a significant leap forward in air quality monitoring technology. Blending with high precision, rapid measurement capabilities and user-friendly design, it sets a new benchmark for CO analysis in diverse climate research and environmental contexts.

This is the perfect tool for airborne measurements, where precise measuring intervals results in a high spatial resolution of the data. It has been used as reference CO analyzer by many universities and international research institutions such as GAW, NOAA and EPA. Large amount of data were being generated in numerous international research campaigns.

MiCRO NOx - Revolutionizing Mobile NOx Analysis - Ultralight design makes it the ideal mobile NOx analyzer. Its high capacity for continuous, real-time detailed tracking of NOx is the key feature. Under automatic operation, with a built-in GPS module, and meteorological sensors, the MiCRO NOx provides comprehensive data on the go, capturing the true picture of air quality in real-time and space. It supports in-depth studies on the interactions between pollutants and climate variables and provides urban planners and public health agency the data to create healthier, more sustainable urban environments.



HCHO Monitor



CO Monitor



Micro NOx Monitor

mPower - VOC & Multi-Gas Detector - USA

- Over 30 interchangeable sensor options, measures VOC, combustibles, CO₂ and many others.
- Up to 6 gas measurements using combination sensors.
- Real-time gas concentration readings with alarm status.
- Both handheld and fixed installation are available.



Multi-Parameter Gas Detector; Fixed Gas Monitor; Handheld VOC Monitor

Gastec - Gas Detection Tubes & H₂S Monitor – Japan

Detection tube provides gases/vapours concentrations of air, water, and soil directly by way of a calibrated scale printed on the tubes. Tubes are now available for more than 600 different applications.

This H₂S Data Logger could continuously monitor (@ 1 min. interval for 1 month) the sewer system for possible corrosion of sewage pipelines and generation source of offensive odours.



Gas Detection Tubes w/ Pump



H₂S Data Logger /Monitor

Swema – Thermo Environment – Sweden

Ergonomics of the thermal environment – Analytical determination and interpretation of satisfaction of thermal environment using calculation of the PMV and PPD indices and local thermal comfort criteria.



- Environmental Analysis (Ambient Air) -



Indoor Air Quality (IAQ) Mold Sampling Systems

The **IAQ 15 Connect™** stands out as the most compact and portable sampling pump, boasting an extended battery life tailored for exclusive use with Air-O-Cell® and Via-Cell® cassettes to streamline your work. Key features include its exceptionally compact design, providing access to confined sampling areas like crawl spaces and HVAC vents, along with an extended battery life that allows for up to 99 five-minute samples on a fully charged battery. With Bluetooth connectivity and compatibility with the IAQ 15 app, available on the Apple App Store and Google Play, this pump allows seamless control and retrieval of multiple records.



Bio-Pump® IAQ Lite battery-powered IAQ pump, meticulously crafted for exclusive use with Air-O-Cell® and Via-Cell® cassettes at a flow rate of 15 LPM, ensures optimal functionality in IAQ applications. The Bio-Pump® IAQ Lite also represents a great value, combining cutting-edge features with practicality for effective indoor air quality monitoring.



Via-Cell® sampler is a bioaerosol sampling cassette designed to collect both viable and non-viable bioaerosols, maintain viability of the viable mold spores and prevent growth during transport to the laboratory



Air-O-Cell® Air Sampling Cassettes are specifically designed for fast collection of airborne aerosols and inorganic particulates. These easy-to-use air sampling cassettes could collect a wide range of airborne particulates such as mold, spores, pollen, insect parts, fibers, skin cells, and more. Air-O-Cell cassettes provide a broader overview of potential contaminants than conventional sampling methods by collecting both viable and nonviable sample specimens. The Air-O-Cell cassette can be used with any standard off-the-shelf area sampling pump capable of drawing 15 LPM open flow., such as the IAQ 15 Connect and Bio-Pump Plus.



Personal Asbestos Sampling



Asbestos Personal & Sampling Pumps and Asbestos Sampling Cassettes

Surface Sampling



Bio-Tape™ provides a standardized sampling method for the determination of mold, microbial, bioaerosol, and inorganic dust contamination

- Environmental Analysis (Ambient Air) -

Arizona - Toxic Gas Analyzer (H₂S & Hg) - USA

Gold Film H₂S & Hg Vapor Analyzers

The newest **H₂S** analyzer from Arizona Instrument LLC is the Jerome® J605 Hydrogen Sulfide Analyzer. The Jerome® J605 can read as low as 3ppb with an incredible resolution of 20ppt.

- **Ultra Sensitive:** Detect hydrogen sulfide in air at levels as low as 3ppb.
- **Proven:** Gold film sensing technology has been validated in the laboratory and in the field for more than 35 years.
- **Rugged:** Its sturdy metal housing makes the J605 tough enough for nearly any environment.
- **Reliable:** With 18 hours of battery life per charge, the J605 is always ready when you need it.
- **Smart:** Features onboard data logging for up to 20,000 measurements, USB data transfer, and SCADA interface capabilities through 4-20ma output.



J605 H₂S Analyzer

The Jerome® J405 portable **Hg** vapor monitor is redefining the portable mercury vapor analyzer market. Significant performance enhancements and modern communications capabilities have been combined to create a new option for mercury spill detection and clean-up analysis. The J405 utilizes the industry-proven, inherently stable and reliable gold film sensor technology and simple, one-button operation. The ergonomically-designed handle, lighter exterior case and significantly lower detection capabilities (0.5 µg/m³) make it a portable, easy to use, low-level mercury detection instrument.

- **Sensitive:** With a detection limit of 0.5 µg/m³, the J405 is ideal for both industrial and residential cleanup settings.
- **Proven:** Jerome® instruments have been recognized as the gold standard for mercury detection for over 35 years.
- **Rugged:** Its sturdy metal housing makes the J405 tough enough for nearly any environment.
- **Reliable:** With 24 hours of battery life per charge, the J405 is always ready when you need it.
- **Smart:** Features onboard data logging for up to 20,000 measurements, USB data transfer, and SCADA interface capabilities through 4-20mA output.



J405 Hg Analyzers

Fluorescence Spectroscopy Hg Vapor Analyzer

This J505 portable fluorescence spectroscopy Hg vapor analyzer offers a simpler and smaller detection cell. Lighter weight and more durable design completes well with the more expensive spectroscopy instruments. The highly efficient optical cell requires less flow to purge the system, allowing the J505 to run at a lower flow rate minimizing sample dilution as found in competing spectroscopy instruments.

- **Lightweight:** Weighs only 3 kg, less than half that of some atomic absorption mercury detectors.
- **No downtime:** Because the J505 uses atomic fluorescence to detect mercury, no regeneration time is needed.
- **Sensitive:** Meets and exceeds EPA standards for industrial and residential remediation actions.
- **Few Interferences:** With 18 hours of battery life per charge, the J505 is always ready when you need it.
- **Proven:** The Jerome J505 is in active use by the EPA, Los Angeles County, the City of New York and many others.



J505 Hg Analyzers

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