

AUTOMATED SAMPLING FOR REAL-TIME DECISION-MAKING

Data Analyst™ Continuous or Triggered Spectroscopic Monitoring Platform

Enable automated nuclide sampling and continuous nuclide monitoring to protect worker safety and make real-time decisions

Reduce Worker Exposure Risk

Protect worker safety by eliminating risk-prone manual sampling.

Track Nuclide Activity in Real Time

Enable continuous — automated or triggered — gamma spectroscopic monitoring. Instantly monitor activity levels and make informed decisions quickly.

See Risk Signals and Respond Sooner

Recognize data trends and get automated alerts for rapid response and remediation.

Integrate and Deploy Easily

Embed within new and existing spectroscopy systems, stack monitors and scanning systems, or use on mobile platforms like drones and robots.

Achieve Greater Flexibility and ROI

Flexible detector choices and ISOCS $^{\text{\tiny{M}}}$ calibrations cater to diverse applications.



KEY FEATURES

AUTOMATED GAMMA SPECTROSCOPIC SAMPLING

Data Analyst runs autonomously, supporting various triggering methods (continuous, at defined time points, or on-demand) and allowing multiple simultaneous workflows following easily customizable data collection intervals.

FLEXIBLE DATA COLLECTION & STORAGE

Continuously record data such as dose rate, temperature, pressure, location, stack flow rate and sample flow rate from a variety of devices. Store data locally — as well as transmitting live data to real-time monitoring systems.

CENTRALIZED DASHBOARD & REMOTE ACCESS

Intuitive web-based platform visualizes nuclide activity trends and predicts future conditions. Access this data and get alerts — anytime, anywhere.

CONTINUOUS NUCLIDE ACTIVITY MONITORING & ALERTING

Embedded Genie™ software accelerates data processing for real-time monitoring and analysis of nuclide-specific results. Get automated alerts based on pre-set thresholds to detect abnormal conditions — earlier and more reliably.

COMPATIBLE & ADAPTABLE TECHNOLOGY

The Data Analyst platform is purpose-built for compatibility. Use the Data Analyst system with high-resolution detectors such as HPGe, mid-resolution detectors like CZT, or with large and compact highly efficient detectors like scintillators. Embed Data Analyst monitoring within larger systems (stack monitors and scanning systems) or use it on mobile platforms (drones and robots).

Versatile and Proven Applications

The Data Analyst system is compatible with various types of detectors and systems, including: Lynx® II Digital Signal Analyzer with HPGe or scintillation detectors, Osprey® Universal Digital MCA Tube Base with scintillation detectors, and the GR1™ Compact CZT Spectrometers.

Here are key applications for how Data Analyst monitoring is being used today:



In-Situ CZT System Deployment in Nuclear Power Plants

Deployments at various reactor sites are using shielded, collimated CZT detectors to monitor primary coolant pipes, ranging from outage cycles to a complete fuel cycle over two years.



Stack Gas Monitor with HPGe System

Multiple reactor sites across Europe, the USA, and Australia are using shielded HPGe detectors with large Marinelli beakers designed to measure a very wide (8-decade) dynamic range of gas concentration.



Radiopharmaceutical Sample Assay at Reactor Sites

Freshly activated samples intended for Lu-177 production can be assayed using a heavily shielded, collimated CZT detector to confirm activation levels and purity at reactor irradiation facilities.



Autonomous Robotic Ground and Floor Activity Monitoring

An EPRI-furnished robot, equipped with two NaI spectrometers and Data Analyst modules, has been programmed to autonomously drive a predetermined pathway, where it transmits nuclide analysis data every three seconds.

ACCESSORY SOFTWARE

Additional compatible software supports expanded use cases:

DA-PROSPECTOR SOFTWARE

Offers advanced capabilities for multinuclide graphical trending and reporting, simplifying the review and evaluation of extensive archival data. Compatible with archive files from the Data Analyst system.

HORIZON® PLATFORM

A supervisory system that provides visibility and control over a network of radiation monitoring systems, enabling real-time data access from site instruments and supports remote DA-Prospector data visualization and trending operations.



Protect What's Next™

Learn about the Data Analyst System's wide-ranging capabilities »





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