

Leadership in Separation Science

Dionex stands for **passion** in the science of chromatography, **power** in the technologies behind our products, and **productivity** in the industries that shape the world. The scope of Dionex technology consistently expands and evolves to meet our customer needs. From our watershed introduction of Reagent-Free™ Ion Chromatography (RFIC™) systems to our state of the art Rapid Separation LC (RSLC) Dionex defines the leading edge of innovation in the separation sciences.

SERVING GLOBAL MARKETS

Life Sciences

At Dionex, bioanalytical technologies and applications are driven by collaborations with our customers. For the study of genomics, proteomics, glycomics, and metabolomics, as well as medical sciences, Dionex provides special separation tools for the most challenging matrices. Our technology empowers a growing number of pharmaceutical and biochemical applications, including fundamental research, analysis of molecules involved in disease, and tools that facilitate drug and biotherapeutic discovery through development into manufacturing and QA/QC.

Industrial

Dionex serves a wide range of industrial markets, including chemical, food safety, and biofuels while also addressing the analytical needs of the electronics and power industries. These industries rely on Dionex for continually developing unique system solutions to meet their needs. With applications and chemistries ranging from research to regulated methods, Dionex is unique in its offering for all analyte classes.

Environment

Scientists monitor trace-level impurities in drinking water, groundwater, and wastewater. Using Dionex technology, they evaluate pollutants under regulations established by the U.S. Environmental Protection Agency, ISO, DIN, the European Commission, and other agencies around the world. Our environmental expertise includes safety applications to identify explosives and hazardous chemicals, and pollution testing for the analysis of air, soil, and solid waste.

Now sold under the
Thermo Scientific brand

Thermo
SCIENTIFIC

PRODUCT SOLUTIONS

Dionex has continued to invest in the development and production of groundbreaking instrumentation, software, chemistries and services, with Ion Chromatography (IC) and High Performance Liquid Chromatography (HPLC) products being among the most important tools for today's scientists.

Ion Chromatography

Since the development of IC analysis over 30 years ago, Dionex has pioneered the development of IC systems, media, and applications.

- Starter-line and basic systems for straightforward and repetitive analyses
- Reagent-Free IC systems reduce eluent and regenerant preparation
- x2 Dual systems allow double throughput, simultaneous analysis, and complex methods
- Suppressed conductivity, amperometry, UV-vis, diode array, and MS detectors

- High resolution ion-exchange, ion-exclusion, and dedicated carbohydrate and amino acid columns; monolith separation technologies
- Concentrator, polishing, and trap columns for on-line sample preparation and trace analyte determination
- Integrated control and data processing with Chromeleon® Chromatography Data System (CDS) software

Fully integrated systems—the ICS-1100, ICS-1600, and ICS-2100—offer Always-On and Always-Ready technology with Eluent Regeneration (RFIC-ER™), or electrolytic Eluent Generation (RFIC-EG™). The ICS-5000 Reagent-Free IC (RFIC) system with Eluent Generation is the world's first capillary IC system. Developed with flexibility, modularity, and ease-of-use in mind, the ICS-5000 combines the highest sensitivity with convenience. RFIC systems not only reduce the manual labor of IC, they provide simplified operation, reduced labor costs, and outstanding results, and make it easy to learn and easy to use. For ion analysis, nothing compares to a Dionex ion chromatography system.



ICS series featuring 900/1100/1500/2100 and the new and first of its kind—the capillary ICS-5000 system.

Liquid Chromatography

Over the past decade, Dionex has focused on groundbreaking instrumentation for HPLC. With the UltiMate® 3000 Rapid Separation LC system Dionex delivers state-of-the-art UHPLC performance to the applied chemistry, pharmaceutical, and life science industries, and the UltiMate 3000 RSLCnano system brings the same benefits to proteomics research. Dionex recently expanded its UHPLC detector portfolio by adding the Corona® family of universal charged aerosol detectors, widely used in the pharmaceutical industry.

- Excellent retention time precision, detector sensitivity, linearity, and drift
- x2 Dual systems for multidimensional separations and high-throughput
- Rapid Separation LC systems for fast, high flow-rate, ultrahigh-pressure applications
- Biocompatible systems available for sensitive samples
- Reversed-phase, ion-exchange, mixed-mode (HILIC, reversed-phase, and ion-exchange combinations), and monolith columns
- Specialty columns (Carbamate, Explosives, HILIC, Organic Acids)
- Diode array, multi-wavelength, fluorescence, electrochemical, universal, and MS detectors
- Integrated control and data processing with Chromeleon software

The UltiMate® 3000 system meets the demands of analytical LC analyses at pressures dedicated to the UHPLC pressure range and beyond. Stable, accurate pulse-free eluent flows provide consistent gradient formation, rapid gradient response, and excellent retention time precision. x2 Dual configurations deliver flexibility of solvent selection with the productivity and performance benefit of advanced applications. The UltiMate 3000 provides the widest range of in-line detectors in the industry, and is powered by Chromeleon, the world's most renowned and accepted chromatography data system.

Mass Spectrometric Detection

The Dionex MSQ Plus™ Mass Spectrometer can be used in a wide range of applications and methodologies in both HPLC and IC. It provides universal detection and characterization of analytes in the 17–2000 m/z range.

- New M Path™ source design virtually eliminates neutral noise and background
- Unique FastLoc™ probes provide simple and rapid changes for both ESI and APCI modes
- All features fully supported in Chromeleon Chromatography Data system software

The MSQ Plus features a newly self-cleaning Atmospheric Pressure Ionization (API) source for outstanding sensitivity and noise reduction. Compatible with existing LC and IC methods, the MSQ Plus is more sensitive, rugged, powerful, easier to use, and smaller than any other instrument of its kind.



MSQ Plus Mass Spectrometer.



UltiMate 3000 HPLC and RSLC series with acquired Corona and ECD detectors from ESA—a Dionex Company.

Chromatography Data Systems

Software is more than just an essential component of a modern chromatography system—it is often the most important factor in how much you get out of that system. Whether your needs are basic or complex, whether you use instruments from Dionex, or from other manufacturers or both, Dionex has a Chromeleon CDS software solution that is right for your lab environment.

Chromeleon provides a balance between mainstream capabilities and specialized functions, and between focusing on the immediate task and creating awareness of greater possibilities. With eWorkflows™, Chromeleon captures all of the unique aspects of a chromatography workflow. It guides the operator through a minimal number of choices needed. The software runs the chromatography, processes the data, and produces the final results you want. Chromeleon software helps ensure regulatory compliance and optimal performance.

With the Chromeleon DCMS^{Link™} Dionex delivers plug-in control of its instruments through Mass Spectrometry software from Thermo Fisher Scientific, (Xcalibur™), ABI/Sciex (Analyst™), and Bruker (HyStar™).

Automated Sample Preparation

Common extraction techniques of soil and semisolid samples, such as Soxhlet or microwave sonication, are slow and consume high solvent volumes. For fast, convenient, and effective sample preparation, Dionex Accelerated Solvent Extraction (ASE®) systems accelerate extraction of analytes by using elevated solvent temperature and pressures. Adsorbents mixed with the sample or placed in the extraction cell automate cleanup, further reducing time, effort, and solvent usage. Dionex also offers an automated solid-phase extraction (SPE) workstation, the AutoTrace® 280 SPE instrument. The AutoTrace SPE instrument automates extraction and concentration of liquid samples and provides high reliability and precision for superior results.

Separation Chemistries

Dionex has led the industry in ion analysis for decades. Our portfolio of high resolution IonPac® columns is recognized around the world for excellence in compound analysis. Today, we are expanding our leadership and technological scope into other areas of LC. New Dionex chemistries such as the monolithic DNASwift™ or PepSwift™, or the newest Acclaim® Mixed-Mode, and Acclaim Trinity™ Tri-Mode technologies provide high-resolution separation of basic, neutral, and acidic components, and expand the capabilities of our instruments.

Services

Dionex partners with the worldwide community of scientists and technicians who use our instruments. We offer more than just products; we offer commitment to scientific excellence through validation, training, and certification programs that prove valuable to our customers subject to regulatory requirements.



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Passion. Power. Productivity.



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