



Arbitrary Waveform Generator

The HDAWG from Zurich Instruments is an arbitrary waveform generator (AWG) with the highest channel density (HD) and shortest trigger latency available.

HDAWG offers up to eight channels with 16-bit output and a sample rate of 2.4 gigasamples per second. A waveform memory of 500 megasamples, 32-bit digital input/output (I/O), and transistor-transistor logic (TTL) marker output complete the package. For applications requiring many channels, multiple instruments can be synchronized and centrally controlled. HDAWG includes the LabOne user interface and multiple application programming interfaces. Sequences can be easily written, edited, and compiled using the embedded scripting language. These sequences can be swiftly transferred over 1 Gigabit Ethernet or USB 3.0, saving time and allowing the user to maintain an overview of complex signal patterns. HDAWG meets the highest R&D requirements, for example, quantum computing applications to produce pulsed sequences with minimal noise, nuclear magnetic resonance, electronic component testing, spectroscopy, and radar/lidar.

Zurich Instruments

For info: +41-(0)-44-515-0410
www.zhinst.com

Tip Eject Reload Solution

Reload your racks without coming in contact with the tips. Tip Eject provides a clean reload solution with easy one-handed loading. Tip Eject's rigid plastic covering shields tips from the laboratory environment from the top down, keeping contamination out. It comes with clear casing and colored snap cards for easy tip identification. TipEject takes up one-fifth the bench space of a pack of racked tips. The package is recyclable; by reusing the base, plastic use is reduced by up to 44%. When you've got the need for speed and only one free hand, Tip Eject is the solution.

Biotix

For info: 888-330-2396
biotix.com

Gene Expression Panels

nCounter Gene Expression Panels are developed in collaboration with leading researchers to deliver the most valuable, relevant panel content across applications, providing a highly multiplexed, simple workflow—no library prep or dilutions required, and just 15 min total hands-on time. Address key challenges in immuno-oncology by measuring multianalyte expression levels simultaneously within the tumor, the immune system, and the tumor microenvironment all on one platform, with NanoString's 3D Biology Technology. nCounter Immunology, Inflammation, and Myeloid Panels are all designed to evaluate biomarkers associated with autoimmune diseases and can be customized with up to 30 additional user-defined genes. Furthermore, nCounter Immunology Panels are ideal for assessing infectious disease immune response and for pathogen identification.

NanoString Technologies

For info: 888-358-6266
www.nanostring.com

Solid-Phase Microextraction Tips

SPE-it Tips are solid-phase microextraction devices configured to permit isolation of analytes from aqueous solutions followed by direct analysis without further sample processing. The fiber tips are solid-phase microextraction fibers embedded in a micropipette tip for easy handling. The fiber coating is composed of either C18 or PDMS/DVB bonded silica particles embedded in a biocompatible polymer. These tips can be manipulated manually or by robotic equipment, and are shipped in a 96-well format tray. The DART SPE-it kit includes a box of 96 SPE-it fibers (C18 or PDMS/DVB), a deep-well plate shaker, two SPE-it holders (each holds 12 fibers), a module for use with dynamic automated range technology (DART) automation hardware, an SPE-it Kit Place Mat with instructions, and 5 × 96 well plates provided with the initial kit. Additional fibers can be purchased separately in eight-pack units.

IonSense

For info: 781-484-1043
ionsense.com/products/consumables/spe_it_tips

Field Fluorometer

The V-Lux Fluorometer is configured to provide high-quality in situ detection of algae, aromatic hydrocarbons, or tryptophan-like fluorescence. It includes three fluorescence channels as well as absorption, turbidity, and temperature channels, which allow corrections from these potential interferences. Applications include monitoring of road and airport apron runoff, bathing waters, and shellfish waters, plus discharge monitoring within the oil and gas sector. The fluorometer is packaged within a small, 50-mm diameter housing of 158-mm length, is rated to 6,000 m, and has integrated antibiofouling protection. It comes with an internal logger and provides real-time data with a choice of data output protocols including Modbus, SDI-12, and other digital formats, and includes quality control channels. It can be used as a handheld instrument, as part of a flow-through system, or deployed from gliders or underwater vehicles.

Chelsea Technologies Group

For info: +44-(0)-20-8481-9000
www.chelsea.co.uk

Surface Analysis System

Materials researchers, product developers, and failure-analysis scientists seeking to conduct cost-effective, research-level X-ray photoelectron spectroscopy (XPS) studies can now benefit from the Thermo Scientific Nexsa surface analysis system. The system is designed to easily integrate multiple analytical techniques in a single, compact, fully automated surface analysis instrument. Nexsa combines the high throughput and high sensitivity of the K-Alpha XPS system with the multitechnique capabilities of the ESCALAB Xi+ XPS microprobe. Nexsa users can add complementary techniques, such as Raman spectroscopy, ion scattering spectroscopy, reflected electron energy loss spectroscopy, and UV photoelectron spectroscopy, to generate multiple measurements from the same point on the sample. Integration of multiple techniques allows users to conduct true correlative analysis, unlocking the potential for further advances in microelectronics, ultrathin films, and nanomaterials development.

Thermo Fisher Scientific

For info: 800-532-4752
www.thermofisher.com

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