

NEW PRODUCTS

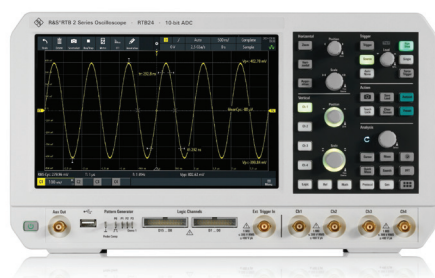
Focus on test, measurement, quantum metrology, and analytical equipment

The descriptions of the new products listed in this section are based on information supplied to us by the manufacturers. *PHYSICS TODAY* can assume no responsibility for their accuracy. For more information about a particular product, visit the website at the end of its description. Please send all new product submissions to ptpub@aip.org.

Andreas Mandelis

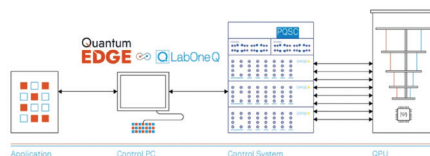
Versatile entry-level oscilloscope

Rohde & Schwarz has presented its new R&S RTB 2 oscilloscope, an evolution of the company's R&S RTB2000 model. The entry-level oscilloscope now includes an integrated arbitrary waveform generator, which allows users to simulate circuit stimuli and emulate missing components. The waveform generator can produce signals up to 25 MHz and pattern speeds up to 50 Mbits/s. It supports imported waveforms from CSV files and oscilloscope captures and can add noise to simulate real-world conditions. Since the versatile instrument combines an oscilloscope, protocol analyzer, logic analyzer, waveform generator, and more, it is suitable for users, such as students and engineers, who work in limited-space environments and require compact solutions. Expanded memory capabilities allow up to 160 Mpoints in segmented mode, so users can capture more data for in-depth troubleshooting. The R&S RTB 2 oscilloscope delivers 10-bit resolution, comes in two- and four-channel models, and offers bandwidths of 70, 100, 200, and 300 MHz. The revised R&S RTB 2-PK1 optional software bundle offers a wider range of applications and enhanced performance. **Rohde & Schwarz GmbH & Co KG**, Muehldorfstrasse 15, 81671 Munich, Germany, www.rohde-schwarz.com

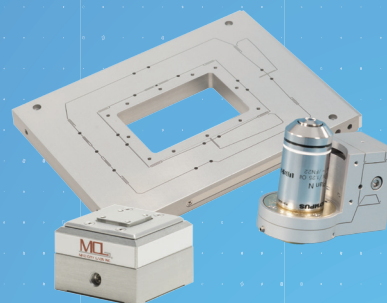


Automation to accelerate quantum computing

Zurich Instruments and QuantroLOx, based in Espoo, Finland, have partnered to integrate Zurich Instruments' Quantum Computing Control System (QCCS) into QuantroLOx's Quantum EDGE automation tool for bringing up, characterizing, tuning, and controlling different qubit systems. According to the companies, the software speeds up those steps by a factor of more than 100 times. The QCCS seamlessly unites RF signal generators, quantum analyzers, and qubit controllers. It offers advanced features such as more than 1 GHz instantaneous bandwidth for streamlined parallel qubit tune-up. The integration of the QCCS into the Quantum EDGE reduces complexity and enhances the performance of quantum computing experiments. Quantum EDGE users can now also harness the power of Zurich Instruments' recently developed SHF+ product line, which features technical specifications that enable high-fidelity gate operations. The integration has been facilitated by Zurich Instruments' LabOne Q open-source software framework. **Zurich Instruments AG**, Technoparkstrasse 1, 8005 Zurich, Switzerland, www.zhinst.com



MCL
MAD CITY LABS INC.

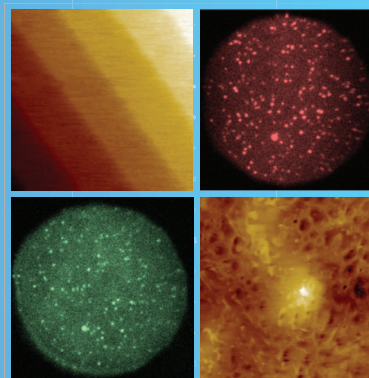


Nanopositioning Systems

Closed loop, piezo control
Low noise, picometer precision
UHV & Custom design available

Micropositioning Systems

Precision motion
Intelligent control = no drift
Nanopositioner compatible



Force Microscopy

MadAFM™ multi-modal sample scanning AFM in a tabletop design

Resonant probe AFM for Quantum sensing & Materials science
Build your own AFM kits

Single Molecule Microscopy

RM21® Microscope with optical pathway access & unique MicroMirror TIRF for Biophysics

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