



DISCOVERY BEGINS WITH MEASUREMENT



Agilent Technologies

MEASURE AND KNOW

Measurement touches virtually every aspect of our daily lives: the quality of our air, water and food; the performance of our smartphones; and the effectiveness of our pharmaceuticals.

Few people think about the precise measurements needed to make our world a better place to live. But scientists and engineers do. And they use a vast array of instruments to achieve this high level of precision, down to nanometers, picoseconds and parts per trillion.

For more than 70 years, Agilent Technologies has been the world's premier measurement company. Our singular focus on measurement helps scientists and engineers address their toughest challenges with precision and confidence. With the help of our products and services, they are better able to deliver the breakthroughs that make a measurable difference in the world.



Measurement ensures the quality of the world around us—from our food and water, to our air and soil, to the fuel that powers our vehicles.

Measurement is the first step in innovation. It is behind the design and manufacture of every electronic and consumer product today

Measurement is the key to unlocking genetic causes of disease and develo the therapeutics to treat it.

MEASUREMENT IS THE FOUNDATION OF DISCOVERY. IT EXPANDS OUR KNOWLEDGE, DEFINES OUR PROGRESS AND SPARKS NEW INSIGHTS.





WE MAKE SCIENTIFIC INSTRUMENTS—INCLUDING OSCILLOSCOPES, CHROMATOGRAPHS, SPECTROMETERS, SIGNAL SOURCES, SIGNAL AND NETWORK ANALYZERS, ATOMIC FORCE MICROSCOPES AND NUCLEAR MAGNETIC RESONANCE SPECTROMETERS—AS WELL AS COMPLETE SOLUTIONS TO ADDRESS A WIDE RANGE OF MEASUREMENT CHALLENGES.



Scientists use our products to test food safety. Investigators use them to examine crime-scene evidence. Researchers use them to study diseases and develop new drugs. And engineers use them to design and test smartphones, satellites, semiconductors and surveillance systems for homeland security.

We've been providing innovative measurement solutions since 1939, when Bill Hewlett and David Packard started their business in a now-famous garage in Palo Alto, California a business devoted to accurate measurements, a business that became known as Agilent Technologies in 1999. Today, we have the technology, talent and global reach to help our customers succeed. And we continue to top the industry in R&D investments so that Agilent scientists and engineers can keep pushing the frontiers of technology to measure the unmeasured.

MEASURE

AGILENT

WITH

It's a quest with infinite possibilities. Every wave of technology and innovation is ultimately succeeded by another, and Agilent's scientists and engineers are dedicated to recognizing and catching the next waves. With even more complex challenges ahead in human health, the environment and communications—we stand ready to help our customers discover what they need to know.

In more than 100 countries—wherever there's a need for measurement and testing—Agilent is at the forefront. No other company offers Agilent's breadth and depth of measurement tools and expertise across chemistry, biology and electronics. Agilent's lab-on-a-chip technology provides a fast and reliable method for determining the authenticity of seafood.

Agilent enables agricultural scientists to quickly and accurately screen for more han 500 pesticides. s chromatography solutions are us natural gas and refining... as well chemicals and alternative fuels.

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AGILENT HAS PROVIDED MEASUREMENT SOLUTIONS TO THE APPLIED CHEMICAL INDUSTRY SINCE 1965. WE REVOLUTIONIZED THE GAS CHROMATOGRAPHY MARKET WITH THE WORLD'S MOST POPULAR GC.







FOCUS AREAS

ENERGY AND FUELS
ENVIRONMENT
FOOD SAFETY
FORENSICS AND DRUG TESTING
MATERIALS

CHEMICAL ANALYSIS

AGILENT PRODUCTS ADDRESS THE WORLD'S MEASUREMENT NEEDS IN FOOD SAFETY, AIR AND WATER QUALITY, AND ENERGY BY DETECTING TRACE LEVELS OF SUBSTANCES WITH HIGH LEVELS OF ACCURACY.

Our gas and liquid chromatographs separate mixtures into their individual components. Our mass spectrometry products provide critical information about sample components; identify unknown compounds; and determine, down to parts per trillion, the presence of those compounds in any sample. Our vacuum-technologies products enable research in high-energy physics and materials as well as provide critical technologies to mass spectrometry and electron microscopy suppliers.

From farm to fork, Agilent is there. Food producers and processors use our systems to test for pesticide residues in fruits and vegetables, biological toxins in nuts and grains, antibiotics and steroids in meat and dairy products, and melamine in milk.

Our instruments can tell one fish fillet from another—a real red snapper, for example, from a less expensive tilapia thwarting food fraud through DNA testing.

Environmental labs around the world use our products and services to help provide safe, clean drinking water to millions of people and to measure pollutants and greenhouse gases in the air we breathe.

The energy industry uses our solutions as well—to discover and refine petroleum, to confirm the quality and composition of gasoline, and to develop renewable biofuels and electrochemical fuel cells.

Our drug-testing equipment is used to confirm that athletes compete fairly in the Olympics, the World Cup, the Tour de France and other major sporting events.



Jur tools are used to research the genetic, proteomic and metabolomic causes of cancer, neart disease, autism and muscular dystrophy

We can produce the longest high-quality nucleic acid (DNA/RNA) strands in the world on a glass microscope slide.





FOCUS AREAS

ACADEMIA AND GOVERNMENT BIOTECHNOLOGY PHARMACEUTICAL MANUFACTURING AND

QUALITY CONTROL

PHARMACEUTICAL RESEARCH AND DISCOVERY

LIFE SCIENCES

RESEARCHERS USE AGILENT TOOLS TO UNCOVER THE POSSIBLE CAUSES OF CANCER, HEART DISEASE, AUTISM AND A MULTITUDE OF OTHER DISEASES—AND TO DEVELOP DRUGS THAT HELP TREAT THEM.

With our liquid and gas chromatographs, mass spectrometers, nuclear magnetic resonance spectrometers, X-ray crystallography instruments and microarrays, researchers characterize proteins and nucleic acids in search of disease markers and to develop breakthrough therapeutics.

With our target enrichment platform, scientists sequence only the genomic regions that interest them. And with our informatics tools, they can glean key insights from large population studies involving genomics, cellular processes and disease conditions.

Researchers use our robotics and liquid-handling products to automate a wide range of workflows, from compound management and high-throughput screening in early drug discovery to a variety of target ID and validation applications, including sample preparation for DNA sequencing, genotyping and protein biomarker analysis.

With our software and services, Agilent helps life-science labs optimize, automate and streamline procedures to increase speed-to-results and increase confidence in those results.

Pharmaceutical companies use our equipment to monitor therapeutics for quality and integrity. Throughout the pharmaceutical value chain—in basic research and disease discovery, in drug development and clinical trials, in manufacturing and quality control—you'll find Agilent solutions.

In fact, providing measurement solutions for biochemistry, the pharmaceutical industry, and the academic research community is the fastest-growing part of our business.

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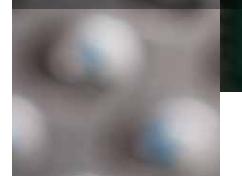
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Our manufacturing test solutions deliver calibration and verification testing capabilities for original design manufacturers and contract manufacturers.

We provide test and development solutions for a variety of cable, satellite, terrestrial and mobile digital video standards.

AGILENT HAS PROVIDED SOLUTIONS FOR ELECTRONIC TEST AND MEASUREMENT SINCE 1939. WE PIONEERED THE MARKETS FOR MANY OF TODAY'S ELECTRONIC TEST INSTRUMENTS, ENABLING THE DIGITAL AND WIRELESS REVOLUTIONS NOW UNDER WAY.





ELECTRONIC MEASUREMENT



FOCUS AREAS

AEROSPACE/DEFENSE
COMMUNICATIONS
INDUSTRIAL, COMPUTER, SEMICONDUCTOR

SOPHISTICATED ELECTRONICS DRIVE OUR INTERCONNECTED WORLD. MORE OFTEN THAN NOT, THESE PRODUCTS AND SYSTEMS ARE DESIGNED, PROTOTYPED, TESTED AND MANUFACTURED USING AGILENT ELECTRONIC MEASUREMENT SOLUTIONS.

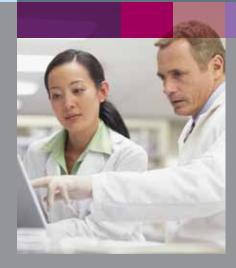
Our instruments help wireless equipment manufacturers improve the overall quality of the user experience. More than half of the cell phones made and sold each year are designed and tested with Agilent products.

In aerospace and defense, our products design and test stateof-the-art electronic systems, such as sophisticated avionics, radar, communication systems, satellite, surveillance and GPS.

Agilent products are used across the development lifecycle of computers and semiconductors, from parametric test of semiconductor wafers, to functional and production test of printed circuits boards, to the final test of computer systems to ensure proper performance. Designers of high-speed digital devices use our products to push performance limits of the latest electronics while ensuring conformance and interoperability with industry standards.

For the general-purpose electronics market, our instruments have far-reaching applications, from testing alternative sources of energy, to automotive electronics, to power management, to introducing future engineers and scientists in academia to fundamental electronic principles.

Electronic measurement is where we first established our reputation for quality and precision, a legacy we've built upon for more than 70 years. As electronics technologies evolve, Agilent stays one step ahead, anticipating our customers' test and measurement needs. AGILENT IS ONE OF ONLY A FEW HIGH-TECH COMPANIES THAT MAINTAIN CENTRALIZED, INTERNAL RESEARCH LABORATORIES. WE CONDUCT RESEARCH THAT ANTICIPATES CUSTOMER NEEDS AND PRODUCES REAL BREAKTHROUGHS—THE KIND THAT POWER GROWTH.



INSTRUMENTAL TO THE FUTURE

Year after year, we invest more in research than most of our competitors do. The result: Innovations from Agilent Research Laboratories represent 10-fold, 100-fold, and even 1,000-fold improvements in performance and ease of use compared with previous solutions.

By collaborating with the leading researchers in academic and government labs, we produce solutions to the problems our customers will face next, helping them measure what could not be measured before.

Many of today's most challenging issues reside at the intersection of technical disciplines. So, while most of our competitors focus on one area of technology—electronics or chemical analysis or life sciences—our expertise lies in all three. We are in the best position to find measurement techniques at these intersections.

Capitalizing on this unique position, Agilent uses its breadth of knowledge and culture of collaboration to identify and enable synergies across these diverse disciplines.

Agilent Research Laboratories provides the indispensible spark of insight.



AT AGILENT, WE CONTRIBUTE

TIME, EXPERTISE AND FUNDS

TO IMPROVE LIVES AROUND

THE WORLD.

We are champions of science education. We collaborate with schools and universities, offering our skills, expertise and time. Through our grants, we act as a catalyst to improve scientific inquiry and teaching so knowledge can multiply.

INVESTING IN COMMUNITIES

More than 20 percent of Agilent employees volunteer regularly in their communities. For example, Agilent After School is a hands-on science program for children ages 9 to 13. Fully funded by Agilent and implemented by our employee volunteers worldwide, it reaches some 40,000 students annually. The Clean Air Challenge, a multi-disciplinary curriculum, helps educators in the United States, China and India teach young students about reducing air pollution.

We are also committed to ensuring that our own operations are environmentally responsible. That is why we are setting up solar power and rainwater-harvesting systems on our campuses, recycling waste generated by our facilities, and eliminating the use of hazardous substances in our products.

Volunteerism and civic engagement are ingrained in our culture. Over many years, we have developed the belief that connecting people is the richest part of discovery.

	OSCILLOSCOPES	IN-CIRCUIT AND PARAMETRIC TESTERS	SEMICONDUCTOR METROLOGY	BIT ERROR RATE TEST (BERT)	POWER SUPPLIES	LOGIC AND PROTOCOL ANALYZERS	FUNCTION AND PULSE GENERATORS	RF & MICROWAVE SOURCES	SPECTRUM AND SIGNAL ANALYZERS	OPTICAL SOURCES AND ANALYZERS	NETWORK ANALYZERS	CELL PHONE TESTERS	DIGITAL MULTIMETERS	UV-VISIBLE-IR SPECTROPHOTOMETRY	X-RAY DIFFRACTION	MASS SPECTROMETRY	NUCLEAR MAGNETIC RESONANCE/NMR SPECTROSCOPY/MRI	ATOMIC SPECTROSCOPY (ICP-MS, ICP-OES, AA)	NANOTECHNOLOGY (AFM, SEM, NANOINDENTER)	GAS CHROMATOGRAPHY	LIQUID CHROMATOGRAPHY	ELECTROPHORESIS	COLUMNS AND SUPPLIES	GAS CHROMATOGRAPHY + MASS SPECTROMETRY	LIQUID CHROMATOGRAPHY + MASS SPECTROMETRY	DNA MICROARRAYS	PCR (POLYMERASE CHAIN REACTION)	BIOANALYZER	DNA LIBRARIES	REAGENT KITS	AUTOMATION (ROBOTICS)	VACUUM SYSTEMS	ELECTRONIC DESIGN AUTOMATION	MEASUREMENT SCIENCE SOFTWARE	BIOINFORMATICS	LABORATORY INFORMATION TECHNOLOGY
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AGILENT SOLUTIONS AT A GLANCE

ENERGY AND CHEMICAL

ENVIRONMENT

FOOD SAFETY

FORENSICS

MINERAL AND GEOCHEMISTRY

DISEASE DISCOVERY

DRUG DISCOVERY/DRUG DEVELOPMENT

GENOMICS/PROTEOMICS/METABOLOMICS

TRADITIONAL CHINESE MEDICINE

AEROSPACE/DEFENSE

COMMUNICATIONS

INDUSTRIAL/COMPUTER/SEMICONDUCTOR

SURFACE AND MATERIALS SCIENCE

SURVEILLANCE

ACADEMIC AND INSTITUTIONAL RESEARCH

AGILENT OFFERS THE BROADEST RANGE OF MEASUREMENT SOLUTIONS IN THE INDUSTRY. FROM DETECTING AND MEASURING THE WORLD'S PHYSICAL PROPERTIES TO TRANSLATING INCREASINGLY COMPLEX DATA INTO ACTIONABLE DECISIONS, WE ENABLE OUR CUSTOMERS TO ADDRESS THEIR TOUGHEST MEASUREMENT CHALLENGES WITH CONFIDENCE.



LIFE SCIENCES

ELECTRONIC MEASUREMEN

RESEARCH

Agilent Technologies, Inc. www.agilent.com

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 Mixed Sources

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