



## Los Gatos Research wins 2012 R&D 100 Award for NO<sub>2</sub> (nitrogen dioxide) Analyzer

*Novel technology provides accurate, direct and real-time measurements of nitrogen dioxide*

Mountain View, CA, June 20, 2012. [Los Gatos Research](#) (LGR), the leader in precision trace gas analyzers, today announced that it has received the prestigious 2012 R&D 100 Award for its new NO<sub>2</sub> (nitrogen dioxide) Analyzer. The R&D 100 Award is given annually to the 100 most technologically significant products introduced into the marketplace over the past year. Winners of the R&D 100 Awards are selected by an independent judging panel and the editors of *R&D Magazine*. The publication and its online portal serve scientists, engineers, and other technical staff members at high tech industrial companies and public and private laboratories around the world.

LGR's [NO<sub>2</sub> Analyzer](#) delivers *parts-per-trillion* (ppt) precision in just seconds, directly from ambient air samples. Specifically, the LGR NO<sub>2</sub> Analyzer provides 50 ppt precision in a one second measurement, which can be extended to 10 ppt (0.01 ppb) performance with less than 1 minute of data integration. With a total measurement uncertainty of less than 1%, this new analyzer delivers higher speed and superior performance than earlier technologies. Furthermore, it does not require any chemical processing, eliminating the use of potentially hazardous ozone or other consumables in this important air pollutant measurement. Together with fully automated operation, plus Ethernet and wireless connectivity, this rugged and compact analyzer (available in LGR's standard rackmount, Enhanced Performance, and Ultraportable packages) is ideal for use in unmanned monitoring stations and airborne applications, as well as in research and reference laboratories.



NO<sub>2</sub>, an important EPA-regulated air pollutant, is a toxic by-product of burning fossil fuels in automobiles, power plants, and other combustion processes. Conventional NO<sub>2</sub> measurement methods are indirect, inaccurate and relatively complex. In contrast, LGR gas analyzers are based on the company's patented technology, a fourth-generation, cavity-enhanced laser absorption technique. This unique approach is both more rugged and more precise than earlier cavity-enhanced techniques, such as conventional cavity ringdown, because LGR instruments do not need ultra-precise alignment or sub-nanometer stability of its optics, or a high degree of thermal control. This ensures higher absolute accuracy, longer maintenance intervals, higher reliability, and reduced cost of ownership.

### **About R&D Magazine**

Since its founding in 1959, *R&D Magazine* has served research scientists, engineers, and technical staff members at laboratories around the world. *R&D Magazine* and [www.rdmag.com](http://www.rdmag.com) provide timely, informative news, and useful technical articles that broaden our readers' knowledge of the research and development industry and improve the quality of their work. *R&D Magazine* sponsors the R&D 100 Awards to recognize the 100 most technologically significant new products of the year.

### **About Los Gatos Research (LGR)**

LGR is the leading innovator of instrumentation for measurements of trace gases and isotopes based on cavity enhanced laser absorption spectroscopy techniques. LGR instruments are used to measure gases, liquids and isotope ratios for industrial process monitoring, atmospheric and environmental monitoring, medical diagnostics, and homeland security. LGR instruments have been deployed worldwide for ultra-precise measurements on all seven continents using research towers, unmanned aerial vehicles, mobile laboratories, commercial aircraft, and deep-sea submersibles. Based in Mountain View, California, LGR has been in business since 1994 and markets instruments worldwide directly and through distributors.

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