



partnering for process control

Company Contact:

Dror David, Chief Financial Officer
Nova Measuring Instruments Ltd.
Tel: 972-8-938-7505
E-mail: info@nova.co.il
<http://www.nova.co.il>

Investor Relations Contacts:

Ehud Helft / Kenny Green
GK Investor Relations
Tel: +1-646-201-9246
E-mail: nova@gkir.com

**Nova Receives New Bookings of \$5.5M for Stand Alone Optical CD
from Three Leading Foundries**

Deliveries expected to take place during the fourth quarter of 2009

REHOVOT, Israel, October 13, 2009 - Nova Measuring Instruments Ltd. (NASDAQ: NVMI) provider of leading edge stand-alone metrology and the market leader of integrated metrology solutions to the semiconductor process control market, today announced that it has received \$5.5 million of Stand Alone Optical CD bookings from three leading foundries. The orders which were received in recent weeks, were for Nova's existing Stand Alone platform, the NovaScan 3090Next, as well as for Nova's new Stand Alone platform the Nova T500™, combined with NovaMARS® software.

"This stream of orders is a direct result of our successful penetration into new customers as well as the proliferation of our technology into additional Fab areas at existing customer sites. These orders will enable us to present a strong finish to a remarkable year in which we have demonstrated our ability to increase market share in each of the segments we serve, while significantly improving our cost structure", commented Gabi Seligsohn, President & CEO at Nova.

About Nova: Nova Measuring Instruments Ltd. develops, produces and markets advanced integrated and stand alone metrology solutions for the semiconductor manufacturing industry. Nova is traded on the NASDAQ & TASE under the symbol NVMI. The Company's website is www.nova.co.il.

This press release contains forward-looking statements within the meaning of safe harbor provisions of the Private Securities Litigation Reform Act of 1995 relating to future events or our future performance, such as statements regarding trends, demand for our products, expected deliveries, transactions, expected revenues, operating results, earnings and profitability. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements expressed or implied in those forward looking statements. These risks and other factors include but are not limited to: unanticipated consequences of the global economic crisis, our dependency on a single integrated process control product line; the highly cyclical nature of the markets we target; our inability to reduce spending during a slowdown in the semiconductor industry; our ability to respond effectively on a timely basis to rapid technological changes; risks associated with our dependence on a single manufacturing facility; our ability to expand our manufacturing capacity or marketing efforts to support our future growth; our dependency on a small number of large customers and small number of suppliers; risks related to our intellectual property; changes in customer demands for our products; new product offerings from our competitors; changes in or an inability to execute our business strategy; unanticipated manufacturing or supply problems; changes in tax requirements; changes in customer demand for our products; risks related to currency fluctuations; and risks related to our operations in Israel. We cannot guarantee future results, levels of activity, performance or achievements. The matters discussed in this press release also involve risks and uncertainties summarized under the heading "Risk Factors" in Nova's Annual Report on Form 20-F for the year ended December 31, 2008 filed with the Securities and Exchange Commission on March 30, 2009. These factors are updated from time to time through the filing of reports and registration statements with the Securities and Exchange Commission. Nova Measuring Instruments Ltd. does not assume any obligation to update the forward-looking information contained in this press release.

