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FOR IMMEDIATE RELEASE

CAMTEK SELECTED AS ADVANCED STEM/TEM SAMPLE PREPARATION SOLUTION PROVIDER

*Camtek's Xact System Selected by a Leading Equipment Supplier
For Advanced STEM/TEM Analysis Applications*

MIGDAL HAEMEK, Israel – April 15, 2010 – Camtek Ltd. (NASDAQ and TASE: CAMT) ("Camtek" or the "Company"), announced today that a leading Semiconductor Equipment Supplier has selected the **Xact**, Camtek's Advanced STEM/TEM (Scanning Transmission Electron Microscope) sample preparation solution, enabling material analysis and verification. The **Xact** system will be installed in the second quarter of 2010.

Shrinking feature dimensions and advances in material complexity require a scale of analysis only supplied by STEM and TEM. Sample preparation for front end of the line (FEOL) process monitoring and offline failure analysis has become a bottleneck. Existing sample preparation solutions are falling short of meeting the evolving requirements of high resolution and high contrast imaging and analysis. Camtek's **Xact** overcomes these limitations by applying the ground-breaking Adaptive Ion Milling (AIM™) technology, and offers negligible artifacts and improved throughput for customers.

The **Xact** was developed by SELA - Semiconductor Engineering Laboratories Ltd. ("SELA"), who was acquired by Camtek in November 2009.

Mr. Roy Porat, Camtek's General Manager commented: "We are very pleased to announce this first order by us within only a few months from the completion of the acquisition of SELA. This is an achievement that justifies our belief in the viability of the Sela acquisition and business potential. Based on our strong technological advantage, we believe this order of the **Xact** is a first step towards a successful penetration to a very significant potential market estimated by us today at \$150 million with potential for a substantial growth in coming years"

ABOUT CAMTEK LTD.

Camtek Ltd provides automated solutions dedicated for enhancing production processes and yield, enabling our customers new technologies in two industries; Semiconductors, Printed Circuit Board (PCB) & IC Substrates.

Camtek addresses the specific needs of these industries with dedicated solutions based on a wide and advanced platform of technologies including intelligent imaging, image processing, ion milling

and digital material deposition. Camtek's solutions range from micro-to-nano by applying its technologies to the industry-specific requirements.

This press release is available at www.camtek.co.il.

This press release may contain projections or other forward-looking statements regarding future events or the future performance of the Company. These statements are only predictions and may change as time passes. We do not assume any obligation to update that information. Actual events or results may differ materially from those projected, including as a result of changing industry and market trends, reduced demand for our products, the timely development of our new products and their adoption by the market, increased competition in the industry, price reductions as well as due to risks identified in the documents filed by the Company with the SEC.