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CAMTEK RECEIVES TWO ORDERS FOR ITS GANNET SYSTEM

MIGDAL HAEMEK, Israel – October 4, 2010 – Camtek Ltd. (NASDAQ and TASE: CAMT) (“Camtek” or the “Company”), today announced that it has received two orders for its, new Automatic Optical Inspection (AOI) system for the front-end semiconductor industry, the **Gannet**. One of the orders is a repeat order from a leading Asian Integrated Device Manufacturer (IDM). The second order is from leading Asian foundry. Both systems are expected to be installed during the fourth quarter of 2010.

Camtek’s Gannet provides solutions for a variety of processes in the front-end semiconductor market, offering a competitive advantage to customers. Designed to address the global trend for multiple resolution inspection at a low cost of ownership, the **Gannet** system provides high sensitivity defect detection and rapid setup combined with high throughput capabilities.

Mr. Roy Porat, Camtek’s CEO, commented: “We are very pleased that these leading industry customers have selected our tools. Front-End Macro Inspection is a new market for us. While every new order makes an incremental contribution to our revenue, from a strategic standpoint, the additional penetration into new customers enhances our market share and traction. We believe this market will become a more substantial part of our business as we advance.”

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.