



NEWS RELEASE

CONTACT: Investor Relations
Irvine Sensors Corporation
714-444-8718
investorrelations@irvine-sensors.com

IRVINE SENSORS ANNOUNCES AVAILABILITY FOR HI-DENSITY FLASH PRODUCTS

FOR IMMEDIATE RELEASE

COSTA MESA, CALIFORNIA -- April 22, 2010 -- Irvine Sensors Corporation (NASDAQ: IRSN) today released the schedule roadmap for expected availability of its VAULT™ line of flash memory products. The VAULT products are based on use of Irvine Sensors' proprietary stacking technologies to achieve extreme memory storage density and speed and are specifically designed to embed advanced technologies developed by Irvine Sensors and U.S. Government agencies to protect stored data from improper access or tampering. The Company previously demonstrated its VAULT technology under government contract and is presently building initial units of a 128 GigaByte (GB) VAULT flash drive, for which it is prepared to take orders for low-volume production. Interested customers are invited to contact John Leon at jleon@irvine-sensors.com regarding quotations of pricing and schedule for this product.

Over the next approximate two years, Irvine Sensors expects to release 256 GB, 512 GB and 1 TeraByte versions of the VAULT products. Depending on configuration, the products are intended to provide capabilities for tamper detection, device locking, advanced data encryption and memory zeroization. Such features are of particular interest for a variety of government and commercial cyber-security applications.

Irvine Sensors Corporation (www.irvine-sensors.com), headquartered in Costa Mesa, California, is a vision systems company engaged in the development and sale of miniaturized infrared and electro-optical cameras, image processors and stacked chip assemblies and sale of higher level systems incorporating such products and research and development related to high density electronics, miniaturized sensors, optical interconnection technology, high speed network security, image processing and low-power analog and mixed-signal integrated circuits for diverse systems applications.

Safe Harbor Statement under the Private Securities Litigation Reform Act of 1995: This message may contain forward-looking statements based on our current expectations, estimates and projections about our industry, management's beliefs, and certain assumptions made by us. Words such as "anticipates," "expects," "intends," "plans," "believes," "seeks," "estimates," "may," "will" and variations of these words or similar expressions are intended to identify forward-looking statements. These statements include, but are not limited to, our ability to satisfy the delivery requirements of VAULT production orders and development of advanced versions of these products. Such statements speak only as of the date hereof and are subject to change. We undertake no obligation to revise or update publicly any forward-looking statements for any reason. These statements are not guarantees of future performance and are subject to certain risks, uncertainties and

assumptions that are difficult to predict. Therefore, our actual results could differ materially and adversely from those expressed in any forward-looking statements as a result of various factors.

Important factors that may cause such a difference include, but are not limited to, our ability to raise additional debt or equity financing to meet the working capital needs of our business and our VAULT products; the availability of components intended for integration into our VAULT products; the emergence of presently unknown competitive products; and the general economic, market and political conditions and specific conditions that may impact our operations. Further information on Irvine Sensors Corporation, including additional risk factors that may affect our forward looking statements, is contained in our Annual Report on Form 10-K, our Quarterly Reports on Form 10-Q, our Current Reports on Form 8-K and our other SEC filings that are available through the SEC's website (www.sec.gov).