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# Ultra-High Sensitivity Photodetector for Image Sensors

Tech ID: 21156 / UC Case 2007-152-0

## **TECHNOLOGY DESCRIPTION**

Researchers in the School of Engineering, University of California, San Diego, have developed an ultra-high sensitivity photodetector and photodetector array with a photocurrent to dark current ratio > 106, The photodetectors are CMOS-fabricated nanostructures that require less power than CCD type sensors, and can be manufactured less expensively as most image-sensor support circuitry is CMOS-based and can be integrated on the same chip as the CMOS image sensor.

### **APPLICATIONS**

Digital cameras and cell phone cameras, camcorders, aerospace, security and military use.

# STATE OF DEVELOPMENT

This technology is in early stage development, and is presently available for licensing. Patents pending.

## **PATENT STATUS**

Country	Туре	Number	Dated	Case
United States Of America	Issued Patent	9,024,295	05/05/2015	2007-152
United States Of America	Issued Patent	8,440,997	05/14/2013	2007-152

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#### OTHER INFORMATION

### **CATEGORIZED AS**

**▶** Optics and Photonics

► All Optics and Photonics

**RELATED CASES**2007-152-0

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