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Lumidigm chooses OSRAM Pointled as light source in Mercury, Mariner fingerprint sensors

[OSRAM LED allows for uniform, efficient illumination in compact package](#)

Lumidigm has selected the Pointled from OSRAM Opto Semiconductors as the illumination source in the company's Mercury and Mariner Fingerprint Sensors (Lumidigm M-Series). Lumidigm has long been at the forefront of the fingerprint sensor market with its proprietary multispectral imaging technology. The recent adoption of the compact, bright and efficient OSRAM Pointled has enabled Lumidigm to reduce the size and cost of its sensors and expand the reach of fingerprint authentication into new applications.

Lumidigm is an innovator in fingerprint biometrics, providing state-of-the-art fingerprint scanning with special emphasis on high performance in real world conditions. Lumidigm's patented multispectral fingerprint technology closes a 20% performance gap often seen with conventional technologies because it illuminates both surface and subsurface fingerprint features, ultimately collecting more biometric information from the finger than conventional sensors can.

"We chose the Pointled product from OSRAM Opto Semiconductors for our Mercury and Mariner product lines because of the unique combination of small package size, symmetric radiation pattern, long lifetime and the ability to operate in high ambient temperatures," said Steve Corcoran, Lumidigm's Chief Engineer. "These attributes made it possible for us to design a compact illumination system that produces a highly uniform and efficient lighting profile at the fingerprint reader platen. Thanks to the excellent output of the OSRAM Pointled, Lumidigm is able to leverage our multispectral technology in a compact fingerprint sensor series."

The OSRAM Pointled is a perfect combination of advanced package and chip technologies. It is the smallest LED with an integrated reflector and is suitable for both surface mount technology (SMT) and zero-height mounting. Its compact dimensions – 2 mm diameter x 0.775 mm high – allow this mini light source to be sunk completely in the printed circuit board, making it ideal for applications such as the Lumidigm M-Series fingerprint sensors where space is at a premium. The typical brightness of the white mini LED is currently 800 mcd at a beam angle of 120°, perfectly suitable for this unique imaging

application.

All Lumidigm fingerprint scanners are available worldwide. For more information on Lumidigm, visit www.lumidigm.com. For more on LED technology from OSRAM Opto Semiconductors, visit www.osram-os.com.



Lumidigm has chosen the OSRAM PointLED to provide a compact, uniform and efficient lighting platform in the company's M-Series fingerprint sensors. Photo: OSRAM / Lumidigm

<http://www.osram-os.com/press>

ABOUT OSRAM OPTO SEMICONDUCTORS

OSRAM AG (Munich, Germany) is a wholly-owned subsidiary of Siemens AG and one of the two leading light manufacturers in the world. Its subsidiary, OSRAM Opto Semiconductors GmbH in Regensburg (Germany), offers its customers solutions based on semiconductor technology for lighting, sensor and visualization applications. OSRAM Opto Semiconductors has production sites in Regensburg (Germany) and Penang (Malaysia). Its headquarters for North America is in Sunnyvale (USA), and for Asia in Hong Kong. OSRAM Opto Semiconductors also has sales offices throughout the world. For more information go to

ABOUT LUMIDIGM

Lumidigm develops and commercializes personal biometric identification products and services that offer customers performance, security and convenience — without compromise. Lumidigm's fingerprint sensors are based on a novel, well-patented multi-imaging technology that has revolutionized the biometrics industry by addressing common real-world problems head-on. The company offers a range of fingerprint sensors that use multispectral imaging to reliably capture superior images quickly, on all people, in all environmental conditions. A Lumidigm solution is available for any security and/or convenience application in which speed, security and reliability are paramount, including mission-critical and challenging markets such as healthcare, banking, transportation, civil ID, time & attendance, physical and logical access, and mobile device applications. For more information, visit www.lumidigm.com.

PRESS CONTACTS:

Kate Cleveland
OSRAM Opto Semiconductors
(248) 277-8018
kate.cleveland@osram-os.com

Bill Maurer
Macrovision, Inc.
(215) 348-1010
bill@macrovis.com
Ref # OOS-250