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

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 [1]. For more on LED technology from OSRAM Opto Semiconductors, visit www.osram-os.com [2].

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Links:
[1] http://www.lumidigm.com
[2] http://www.osram-os.com