Press

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**New infrared Oslon Black LED from Osram provides near-range illumination for camera surveillance**

High-efficiency infrared LED offers cost effective option for mid-range power classes

**Osram Opto Semiconductors has introduced Oslon Black SFH 4713A, an infrared LED (IRED) with a wavelength of 850 nanometers (nm). It is ideally suited for security applications such as camera surveillance of public spaces, company premises, and entrances to banks and shopping centers. While previous Oslon Black high-flux IREDs were designed for systems with a range of up to 100 meters, the new SFH 4713A supports efficient designs for near-range illumination from 10 to 50 meters (approx. 30 to 200 feet).**

Infrared short- to mid-range lighting systems are the target application for the SFH 4713A. To create its new infrared LED (IRED), Osram transferred the high-performance technology behind its Oslon Black, with an optical output of over 1 watt (W), to the mid-range power class of approximately 760 mW, rounding off its IRED portfolio. Currently this IRED is available with a beam angle of 90°.

The new IREDs are the result of advances in chip and package technology – developments that enabled Osram, less than a year ago, to engineer an Oslon Black with unprecedented electro-optical efficiency. The SFH 4713A now makes these advances available in the mid-range power classes as well. “With this new version of the Oslon Black, our customers can use the same designs they did before for high-end, long-range applications to engineer systems with mid- to short-ranges, all while cutting costs,” explains Rajeev Thakur, IR Product Marketing Manager at Osram Opto Semiconductors.

The new high-efficiency IRED offers an optical output of 760 milliwatts at a current of 1 ampere (A). Two to five IREDs are typically adequate for achieving ranges between 10 and 50 meters. Due in part to the smaller chip size, the new IRED is a lower-cost alternative to Osram’s SFH 4715A for systems with mid-range output requirements. In autumn 2015, another variant - the SFH 4714A, with a beam angle of 150° and an optical output of 720 milliwatts - will complement the SFH 4713A. These new components close the gap between the extremely small Oslon Compact, with 270 mW at 0.5 A, and the high-output Oslon Black versions with optical outputs of more than 1,135 mW at 1.5 A. The result is a product portfolio of high-efficiency 850-nm IREDs that serves the entire spectrum of infrared lighting applications and output requirements.

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| Technical Data for the SFH 4713A |
| Dimensions | 3,85 mm x 3,85 mm x 2,29 mm |  |  |
| Optical output at 1 A | 760 mW |  |  |
| Wavelength | 860 nm |  |  |
| Beam angle | 90° |  |  |



Latest chip and package technology for the mid-range power class. The high-efficiency 850 nm IRED Oslon Black SFH 4713A offers an optical output of 760 mW at a current of 1 A.

Photo: Osram



The new Oslon Black SFH 4713A provides the basis for economical and efficient designs for mid- to short-range infrared lighting systems.

Photo: Osram

[http://www.osram-os.com/pr-sfh4713A](http://www.osram-os.com/press)

ABOUT OSRAM

OSRAM of Munich, Germany is one of the two leading light manufacturers in the world. The company's portfolio covers the entire value chain from components – including lamps, electronic control gear and opto semiconductors such as light-emitting diodes (LED) – as well as luminaires, light management systems and lighting solutions. OSRAM has around 34,000 employees worldwide and generated revenue of more than €5.1 billion in fiscal 2014 (ended September 30). The company's business activities have been focusing on light – and hence on quality of life – for over 100 years. The company was listed on the stock exchanges in Frankfurt and Munich on July 8, 2013 (ISIN: DE000LED4000; WKN: LED 400; Trading symbol: OSR).

Additional information can be found at [www.osram.com](http://www.osram.com)

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