

Presse Press

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Osram cooperates with Jaguar Land Rover and Varroc Lighting Systems to put SMARTRIX car lighting on the road

The intelligent matrix modules with innovative silicone lenses will be showcased exclusively at ISAL 2017 and are now being installed in the new Jaguar E-PACE

Driving at night in a new Jaguar E-PACE has never been safer. Co-developed with Varroc Lighting Systems, Osram matrix modules provide ADB functionality (Advanced Driving Beam), ensuring optimum night-time visibility even in extremely poor weather conditions. Continuous intelligent control of the light distribution on the road enables drivers to see hazards in good time without dazzling oncoming road users. Thanks to new long-life silicone lenses from Osram, headlight designers were able to make the lighting system extremely small and compact and continue the trend for narrow low-profile headlights.

“As the world market leader in automotive lighting, we are once again demonstrating our powers of innovation by launching headlights with SMARTRIX modules in cooperation with Jaguar Land Rover”, explained Hans-Joachim Schwabe, CEO Specialty Lighting at Osram. “Our 20-pixel LED system in the new Jaguar Land Rover E-PACE lights up the road perfectly, creating excellent visibility.”

Small dimensions and great performance

Although there are generally fewer vehicles on the roads at night there is a higher proportion of accidents than in daylight. Poor visibility is one of the major contributory factors. What's more, many drivers are distracted by glare from oncoming headlights. Improving forward vehicle lighting is therefore the key to improving road safety between dusk and dawn. Glare-free high beam is achieved with a forward facing camera in the windshield linked to image processing software and smart lighting technology, automatically improving the distribution of light and ensuring that oncoming drivers are not

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dazzled. These automated LED matrix headlights save drivers the trouble of constantly switching between low beam and high beam and therefore make driving easier. Each Osram SMARTRIX module features ten Oslon Black Flat LEDs from Osram's subsidiary Opto Semiconductors, with 20 pixels integrated per headlight. The LEDs offer high light output even at high currents, a uniform light pattern and thermal stability. For the first time the Osram modules are equipped with long-life silicone lenses, which guarantee optimum performance despite their very small size.

A new chapter in smart car lighting

The great benefit of the new SMARTRIX module is the long-life silicone lenses that enable the lighting system to be made particularly small and compact. This in turn gives automobile and headlight manufacturers enormous freedom to develop optics and opens up new headlight shapes. Designers can therefore implement innovative functions in the smallest of spaces and continue the trend for narrow low-profile headlights. First-generation SMARTRIX systems from Osram have now been integrated in the new Jaguar E-PACE.

To see this fascinating headlight with the SMARTRIX module in action go to the Osram booth at the ISAL fair in Darmstadt from September 25 through 27, 2017. Other highlights at the booth include the μ AFS module demonstrator, OLED rear lights and LiDAR, a sensor system for autonomous driving.



Osram is developing various SMARTRIX modules with innovative long-life silicone lenses for the new Jaguar E-PACE headlights.

Picture: Osram



The innovative SMARTRIX modules from Osram contribute to the particularly compact design of the headlights on the new Jaguar E-PACE.

Picture: Jaguar Land Rover

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ABOUT OSRAM

OSRAM, based in Munich, is a globally leading lighting manufacturer with a history dating back about 100 years. The product portfolio includes high-tech applications based on semiconductor technology such as infrared or laser lighting. The products are used in highly diverse applications ranging from virtual reality, autonomous driving or mobile phones to smart and connected lighting solutions in buildings and cities. In automotive lighting, the company is the global market and technology leader. Based on continuing operations (excluding Ledvance), OSRAM had around 24,600 employees worldwide at the end of fiscal 2016 (September 30) and generated revenue of almost €3.8 billion in that fiscal year. The company is listed on the stock exchanges in Frankfurt and Munich (ISIN: DE000LED4000; WKN: LED 400; trading symbol: OSR). Additional information can be found at www.osram.com.

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