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FORVIA HELLA Develops Intelligent Headlamp for NIO's New Brand ONVO L90

- The headlamp elevates performance, design aesthetics, and personalized functionality
- It offers significant lightweight and cost advantages

International automotive supplier FORVIA HELLA has, in close collaboration with ONVO, a sub-brand of China's new energy vehicle (NEV) manufacturer NIO, launched a digitalized, intelligent headlamp for its brand-new SUV model L90. The headlamp achieves significant improvement in performance, design, and personalized functionality, while offering significant advantages in light weight and cost efficiency. It delivers highly customized, upgradable interactive experiences for end-users, reshaping the value of vehicle lighting in intelligent mobility scenarios. Designed, developed, and manufactured by FORVIA HELLA's China local team. The pre-sale for the car model began on July 10, and it will be officially launched at the end of July.

"The demand of the Chinese New Energy Vehicle market for automotive lighting has evolved beyond mere illumination, transforming it into a smart terminal for emotional interaction and personalization ", says Didier Keskas, Head of Lighting Business in the Asian/Pacific region at FORVIA HELLA. "The digitalized intelligent headlamp tailored for the ONVO L90 underscores our innovation in pixel control, optical design, and digital services. By integrating Over-the-air upgrades and low-power consumption design, we've created a holistic ecosystem combining hardware, software and services. This user-centric technological evolution will propel automotive lighting from a functional component to an immersive interactive terminal."

The headlamp system features over 100 independently controllable LEDs, supporting sophisticated dynamic lighting animations and user-defined patterns. Combined with OTA upgradability, it enables possibilities to significantly expand lighting scenarios, such as providing visual support for communications with other road users. Its adaptive high-beam module can dynamically adjust light distribution according to the road conditions, significantly enhancing driving safety at night.

FOR MORE INFORMATION, PLEASE CONTACT

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Addressing the L90's aerodynamic design challenges, FORVIA HELLA's patented technical solution eliminates crosstalk between pixel modules in compact spaces. Its slim high and low-beam module achieves ultra-wide light distribution and homogenous illumination even at extreme mounting angles. Through matrix architecture and proprietary optical concepts, the system preserves the customer's creative design while setting industry standards in lighting distribution width for high/low-beam and illumination homogeneity. In addition, FORVIA HELLA's modular design and process optimization enables optimized cost efficiency and smaller installation space and less energy consumption, offering a lightweight solution that balances performance and cost.

"We will continue to deepen our scenario-based lighting technology portfolio, empowering customers to differentiate their products through innovation and jointly shape the future of intelligent mobility," says Didier Keskis. "This collaboration with ONVO not only marks FORVIA HELLA's strengthened localized strategy in intelligent lighting but also injects robust technological momentum into China's automotive innovation ecosystem."

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ABOUT FORVIA HELLA

FORVIA HELLA is a listed international automotive supplier. As a company of the FORVIA Group, FORVIA HELLA stands for high-performance lighting technology and vehicle electronics and, with the Lifecycle Solutions Business Group, also covers a broad service and product portfolio for the spare parts and workshop business as well as for manufacturers of special vehicles. With currently around 36,500 employees at over 125 locations, the company is active worldwide and generated adjusted sales of 8.1 billion euros in the 2024 financial year. www.hella.de

ABOUT FORVIA

FORVIA, the seventh largest supplier of automotive technology in the world, combines the complementary technological and industrial strengths of Faurecia and HELLA. With around 260 industrial sites and 78 R&D centers, over 150,000 employees, including more than 15,000 R&D engineers, in over 40 countries, FORVIA offers a unique and comprehensive approach to the automotive challenges of today and tomorrow. FORVIA consists of six business groups and a strong portfolio of over 13,000 patents. FORVIA strives to become the preferred innovation and integration partner for automotive manufacturers worldwide. FORVIA sees itself as a pioneer of change that anticipates the transformation of mobility and makes it a reality. www.forvia.com