



**Product and Technology Communications**

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## **The Audi R8 LMX – world's first production car with laser high beams**

- Engine developing 419 kW (570 hp), from 0 to 100 km/h (*62.1 mph*) in 3.4 seconds
- Laser high beam increases range and safety
- Limited-edition supercar can now be ordered

Neckarsulm, May 9, 2014 – 419 kW (570 hp), from 0 to 100 km/h (*62.1 mph*) in 3.4 seconds: The Audi R8 LMX (12.9 liters of fuel per 100 kilometers [*18.2 US mpg*]; 299 grams CO<sub>2</sub> per kilometer [*481.2 g/mile*]) offers breathtaking performance and groundbreaking technology. The limited-edition car is the first production car in the world to come equipped with laser high beams. The R8 LMX can now be ordered and will debut on the streets this summer.

Audi is the leader in developing automotive lighting technology. In 2008, the Audi R8 became the first production car in the world to boast all-LED headlights; this was followed in 2012 by dynamic turn signals. Audi launched a new chapter in automotive lighting with the Matrix LED headlights, which debuted in the updated A8 in 2013. Now the brand with the four rings is igniting the next stage in the R8 LMX: the laser spot for the high beams. It increases the range substantially, which is ideal for a supercar like the R8 LMX.

The Audi engineers work very closely with their racing colleagues on the development of lighting technologies. The combination of LED and laser high beams, for example, will be used for the first time on the new Audi R18 e-tron quattro at the 24 Hours of Le Mans on June 14 and 15. The premium brand is thus continuing its tradition of using racing to test new technologies destined for production.



“Audi has long dominated the most important 24-hour race. In addition to the outstanding TDI drive technology, a maximum light yield gives our pilots a major advantage, and with night racing in particular is a key factor to our success,” says Prof. Dr. Ulrich Hackenberg. “The transfer of the laser headlight to the Audi R8 LMX underscores our leading position in lighting technology. The safety benefit this provides to the customer truly represents *Vorsprung durch Technik*,” says AUDI AG’s Board Member for Development.

With the new laser high beams, one laser module per headlight generates a cone of light with twice the range of the all-LED headlight. Each module comprises four high-power laser diodes. With a diameter of just 300 micrometers, these generate a blue laser beam with a wavelength of 450 nanometers. A phosphor converter transforms this into roadworthy white light with a color temperature of 5,500 Kelvin – ideal conditions for the human eye that enable the driver to recognize contrast more easily and help prevent fatigue. The laser spot, which is active at speeds of 60 km/h (*37.3 mph*) and above, supplements the LED high beam in the R8 LMX and greatly enhances visibility and safety. An intelligent camera-based sensor system detects other road users and actively adjusts the light pattern to exclude them.

The Audi R8 (14.9 – 12.4 l/100 km [*15.8 – 19.0 US mpg*]; 349 – 289 g CO<sub>2</sub> per km [*561.7 – 465.1 g/mile*]) is the dynamic, top-of-the-line Audi model. Its high-revving, mid-mounted engine, double wishbone suspension and ASF (Audi Space Frame) aluminum body are closely based on racing. The Audi R8 LMX is available as a coupe with a production run limited to 99 vehicles. With 419 kW (570 hp) and 540 Nm (*398.3 lb-ft*) of torque, its 5.2 liter, V10 engine accelerates the car from 0 to 100 km/h (*62.1 mph*) in just 3.4 seconds. Top speed is 320 km/h (*198.8 mph*), and average consumption is 12.9 liters of fuel per 100 kilometers (299 grams CO<sub>2</sub> per kilometer) [*18.2 US mpg/481.2 g/mile*]. A compact, seven-speed S tronic transfers the power to the quattro permanent all-wheel drive system. 19-inch wheels are combined with carbon-fiber ceramic brake discs, which up front measure 380 millimeters (*15.0 in*) in diameter. Red anodized brake calipers shine behind the exclusive designer wheels. The R8 LMX is shod with 235/35 R 19 tires up front and 305/30 R 19 tires at the rear.

The new top model also sends out a clear visual signal with its Audi exclusive customized paint finish in Ara Blue, crystal effect. A large, fixed rear spoiler increases the downforce on the rear axle. Like the front spoiler lip, the flics on the sides, the engine compartment cover, the exterior mirror housings, the sideblades, the rear wing and the diffuser, it is made of carbon fiber-reinforced polymer (CFRP) with a matte finish. The Singleframe grille, the air inlet grilles up front and the outlet grille at the rear are finished in titanium gray. The sport exhaust system has high-gloss black tailpipes.



The dynamic lines carry over into the black interior, which also features blue accents. The folding bucket seats are covered in Fine Nappa leather with Sepang Blue diamond pattern. The backrest covers are finished in Ara Blue. Sepang Blue stitching provides subtle contrasts, including on the parking brake lever, the center tunnel console, the steering wheel and the instrument cowl. The black Alcantara headlining and black Fine Nappa leather door trim panels take up the Sepang Blue diamond pattern of the bucket seats.

Subtle details round out the interior. Matte carbon is used on the covers of the center tunnel console and the parking brake lever, on the inlays in the doors and the arc around the cockpit. Illuminated aluminum inlays bearing the limited-edition number are integrated into the CFRP door sill trims. Fine Nappa leather adorns the selector lever for the S tronic and the knee pads; the floor mats have black piping and Sepang Blue stitching.

The Audi R8 LMX will take to the streets this summer. The base price in Germany is €210,000.

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The Audi Group delivered approximately 1,575,500 cars of the Audi brand to customers in 2013. In 2013, the company reported revenue of €49.9 billion and an operating profit of €5.03 billion. The company operates globally in more than 100 markets and has production facilities in Ingolstadt and Neckarsulm (Germany), Győr (Hungary), Brussels (Belgium), Bratislava (Slovakia), Martorell (Spain), Kaluga (Russia), Aurangabad (India), Changchun (China) and Jakarta (Indonesia). Since the end of 2013, the brand with the Four Rings has also been producing cars in Foshan (China). In 2015, Audi will start production in São José dos Pinhais (Brazil), followed by San José Chiapa (Mexico) in 2016. Wholly owned subsidiaries of AUDI AG include quattro GmbH (Neckarsulm), Automobili Lamborghini S.p.A. (Sant'Agata Bolognese, Italy) and Ducati Motor Holding S.p.A. (Bologna, Italy), the sports motorcycle manufacturer. The company currently employs more than 73,500 people worldwide, of which more than 52,500 in Germany. Total investment of around €22 billion is planned from 2014 to 2018 – primarily in new products and sustainable technologies. Audi is committed to its corporate responsibility and has anchored the principle of sustainability for its products and processes in its strategy. The long-term goal is CO<sub>2</sub>-neutral mobility.