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New technology: shift-by-wire, full LED Matrix headlights as well as numerous new safety assistance systems

- › The new OCTAVIA is the first ever ŠKODA to use shift-by-wire technology to operate its DSG transmission
- › Full LED Matrix headlights and full LED tail lights with dynamic indicators are optional
- › Other premieres include Collision Avoidance Assist, Turn Assist and Exit Warning

ŠKODA has equipped the fourth-generation OCTAVIA with numerous new technologies and innovative assistance systems that are making their debut in a production vehicle from the Czech brand. This includes shift-by-wire technology for operating the DSG as well as new systems for further increasing safety, such as Collision Avoidance Assist, Turn Assist and Exit Warning. Yet more premieres for the OCTAVIA include full LED Matrix headlights, Side Assist and Emergency Assist as well as Predictive Cruise Control and Area View.

The new OCTAVIA is the first ŠKODA ever to use shift-by-wire technology to operate its DSG. The gear selector is no longer connected to the gearbox mechanically. Instead, it relays which gear has been chosen electronically. This saves space and offers new design options. In place of the familiar DSG lever, the centre console has therefore been provided with a new control module featuring a small rocker switch for selecting the drive modes – R (reverse), N (neutral) and D/S (drive/sport) – as well as a button for the parking mode, P.

Full LED Matrix headlights as an option

The latest edition of the brand's bestseller can now also be ordered with innovative full LED Matrix headlights, each containing a separate module for the low beam and high beam. Each module features 22 LEDs which can be controlled individually to generate a light beam consisting of several segments. A camera on the windscreen detects vehicles as well as people and objects reflecting the light, and the intelligent lighting technology then automatically turns off individual segments of the light beam. This allows drivers to have the high beam on at all times without dazzling other road users. The headlights also provide different lighting modes for various situations and weather conditions, such as driving in the city, on the motorway or in the rain. The optional full LED tail lights include illuminated crystalline elements, dynamic indicators and an animated Coming/Leaving Home function which is activated by locking/unlocking the car.

Innovative assistance systems

Several of the new assistance systems found in the fourth-generation OCTAVIA are making their ŠKODA debut. By actively increasing the steering moment, the new Collision Avoidance Assist helps to prevent an impending collision with a pedestrian, cyclist or other vehicles using a controlled evasive manoeuvre. At junctions, Turn Assist can detect oncoming traffic at an early stage when turning left, warn the driver or automatically stop the vehicle. The Exit Warning system lets the occupants know if another vehicle or a cyclist is approaching from behind when a car door is open. Another new feature is the Local Traffic Warning function, which automatically warns of traffic hold-ups in the car's immediate surroundings, such as the end of a traffic jam.



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New and improved assistance systems in the OCTAVIA

Many assistance systems are making their debut in the OCTAVIA, while others have been updated. When parking or manoeuvring, the Area View system, available from CW 48/20 (week commencing 23 November 2020), provides an overview of the immediate surroundings. For this, four cameras create a 360-degree image around the vehicle, which is shown on the central display. Side Assist warns the driver of vehicles approaching from behind or that are in the car's blind spot. It monitors an area up to 70 m behind the vehicle and also effectively helps to prevent accidents on motorways and dual carriageways. The system warns the driver by emitting a light on the inside of the wing mirror housings, where it is clearly visible. Side Assist is not active when a trailer or a bicycle carrier is fixed on the tow bar. In urban environments, Front Assist including Predictive Pedestrian and Cyclist Protection warns of collisions visually, acoustically and by gently applying the brakes, slowing the car down when necessary. It detects moving and stationary vehicles in the direction of traffic as well as cyclists and people who are moving in front of the car.

Enhanced Adaptive Cruise Control for even more safety and comfort

Predictive Cruise Control is an updated and enhanced version of Adaptive Cruise Control (ACC), which automatically adjusts the speed of the car based on the vehicles ahead at speeds of up to 210 km/h. In combination with a DSG, ACC has a stop-and-go function, meaning it can bring the car to a standstill and have it pull away again automatically within up to three seconds. The system also brings cars fitted with a manual transmission to a standstill, provided a suitable gear has been selected and the driver disengages the clutch in time. Cruise control will be reactivated once the car has pulled away. The new predictive version also uses images from the camera on the windscreen and data from the navigation system to automatically adjust the speed to suit the road ahead.

Travel Assist: more advanced assistance systems and detection of medical emergencies

The new ACC – together with the updated version of Traffic Sign Recognition and Adaptive Lane Assist (also able to identify roadworks), as well as Traffic Jam Assist and Emergency Assist – forms the comprehensive Travel Assist system. Using Hands-on Detect, Travel Assist also checks whether the driver is touching the steering wheel at least every 15 seconds or whether they no longer have control of the vehicle due to a potential medical emergency. In this case, Emergency Assist activates the car's hazard lights and brings the car to a stop in its lane.

Enhanced proactive Crew Protect Assist: optimal passenger protection in the event of an accident

In the event of an impending accident, the proactive occupant protection system Crew Protect Assist – which has also been enhanced – prepares the car as well as its occupants for the impending head-on or rear-end collision, or even a roll. The front seat belts are tensioned as soon as the system's ESC sensors register sudden braking or the radar sensors at the front of the car detect an impending head-on collision. The new version of the proactive Crew Protect Assist also uses information from a rollover sensor and radar sensors at the rear of the vehicle. If the vehicle starts to skid or threatens to roll over, the system closes the windows to a safety gap of 55 mm and also closes the electric panoramic roof. If the rear radar detects an impending rear-end collision, the proactive Crew Protect Assist activates the hazard lights. In the event of an accident, the occupants are protected by up to nine airbags. Following impact, Multi-Collision Brake brings the vehicle to a stop and prevents it from rolling any further in an uncontrolled manner.



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ŠKODA AUTO

- › is this year celebrating 125 years since the company was founded during the pioneering era of the automobile in 1895, making it one of the longest-established car manufacturers in the world.
- › currently offers its customers nine passenger-car series: the CITIGO, FABIA, RAPID, SCALA, OCTAVIA and SUPERB as well as the KAMIQ, KAROQ and KODIAQ.
- › delivered 1.24 million vehicles to customers around the world in 2019.
- › has been part of Volkswagen Group since 1991. Volkswagen Group is one of the most successful vehicle manufacturers in the world. In association with the Group, ŠKODA AUTO independently develops and manufactures vehicles, as well as components such as engines and transmissions.
- › operates at three locations in the Czech Republic; manufactures in China, Russia, Slovakia and India mainly through Group partnerships, as well as in Ukraine and Kazakhstan with local partners.
- › employs approximately 42,000 people globally and is active in more than 100 markets.
- › is pressing ahead with the transformation from a traditional car manufacturer into the 'Simply Clever company for the best mobility solutions' as part of the ŠKODA 2025 Strategy.