



Audi Q4 e-tron – Parking and maneuvering assist functions

Driver assist systems

One front radar, one front camera, four surround-view cameras, two rear radars and eight ultrasonic sensors: When fully equipped, the sensor system of the Audi Q4 e-tron and the Q4 Sportback e-tron covers a large sensing field and a large number of traffic situations. Important driver assist systems come as standard, the optional systems are subdivided into four packages: the assist package, the assist package plus, the assist package pro, and the safety package.

Safety first: extensive range of driver assist systems

One of the systems equipped as standard is the lane departure warning – its steering interventions can prevent the car from inadvertently straying out of the lane. Using the radar and the camera, Audi pre sense front safety system can identify impending collisions in front of the car, warn the driver, and initiate braking in an emergency. The turn assist system supports the driver in the same way when turning left, the collision avoidance assist helps them steer around obstacles by providing steering movements. The acoustic and optical parking system measures the distance to the rear.

The predictive efficiency assist, which evaluates navigation data and traffic signs, helps the driver save energy. When the car is approaching a zone that demands a slow speed – a built-up area, an intersection, or a curve for example – it indicates to the driver that they should take their foot off the right-hand pedal. When they do that, the system manages the coasting and recuperation without the driver having to take any action. Fatigue assist uses defined patterns to continuously check whether the driver is in good shape. The traffic sign recognition system and the predictive speed limiter round off the range of the standard systems.

Even greater comfort and confidence: the optional systems

The optional systems include adaptive cruise control, which is specially designed for longitudinal guidance. Working in close cooperation with the predictive efficiency assist system, it controls the distance to the vehicle ahead by accelerating and braking. The adaptive driving assistant extends adaptive cruise control with lateral guidance: Gentle steering interventions help the driver stay in the center of the lane. To maintain lateral guidance, the driver simply needs to lightly touch the capacitive steering wheel, which is part of the system, thereby demonstrating attentiveness. However, the driver always remains responsible for vehicle control.

The lane change warning monitors traffic behind and alongside the vehicle and warns the driver if they intend to change lanes in a critical situation. It uses the signals from the rear



radar sensors, as does the exit warning system. The latter alerts the driver and passengers if they want to open a door while a cyclist or another vehicle is approaching from behind. Rear cross-traffic assist increases safety when reversing. Emergency assist brings the vehicle to a stop if the driver is no longer able to do so. Audi pre sense basic and Audi pre sense rear complement the standard Audi pre sense front safety system. For convenient and safe parking, Audi offers surround-view cameras, which provide detailed images of the vehicle's immediate surroundings from various perspectives.