

# euroFOT vehicle

Volvo V70 is equipped with the following active safety systems:

## ACC (Adaptive Cruise Control) with Distance Alert and Collision Warning with Auto Brake

ACC is designed for smooth traffic flow and can be activated at speeds over 19 mph. You just select the desired speed and the minimum time gap to the vehicle in front of you. When the radar sensor detects a slower vehicle in front of you, the speed automatically adapts to that vehicle. If ACC is disengaged and a vehicle in front gets too close, Distance Alert activates a red warning light in the lower section of the windscreen to help you keep a proper distance. Collision Warning with Auto Brake is primarily designed for motorway driving at all speeds and can sense an impending collision and alert the driver. Within a range of 150 metres, a radar sensor behind the grille and a digital camera behind the windscreen continuously monitor the distance to the vehicle driving in front of you. If the vehicle suddenly brakes (or is stationary) and Collision Warning senses that a collision is likely to happen, it will alert you to act with a flashing red warning light on the windscreen along with an audible alarm. Moreover, this technology supports driver-initiated braking by pre-charging the brakes to quickly prepare for panic braking and help shorten the reaction time. If you don't react to the warning and a collision is imminent, the brakes will activate automatically. Collision Warning with Auto Brake will therefore help alert you to avoid a collision and in some situations help reduce the severity of a crash.

## LDW (Lane Departure Warning) with DAC (Driver Alert Control)

At speeds over 40 mph, Lane Departure Warning can help prevent single-vehicle road departures as well as collisions caused by temporary distraction. This function uses the digital camera to register the lane markings and help monitor the car's position on the road. If you weave out of your lane, LDW will alert you with an audible signal. If you intentionally cross a lane marker using the direction indicators, LDW is not activated. DAC (Driver Alert Control) supports when driving on highways at speeds over 40 mph and can help alert a tired or unconcentrated driver. Using signals from a digital camera to calculate the direction of the road along with data from steering wheel movements, DAC can compare any erratic behaviour to your normal driving style. If DAC detects that you are beginning to lose control, you receive an audible warning. At the same time, a message is displayed in the instrument panel suggesting it might be time for a break.

## Adaptive Brake Lights

Beyond the immediate response of the car's brake lights, the adaptive brake light helps warn other road users behind if you are forced into a sudden braking manoeuvre. Active at speeds above 30 mph, this brake light can sense the difference between normal and panic braking. If it is a panic situation, all the brake lights will flash at a rate of four times per second. Once your speed slows to below 18 mph, the lights stop flashing and hazard lights flash instead.

## DSTC (Dynamic Stability and Traction Control)

By helping prevent fishtails, spinouts, and rollovers, stability control technology like DSTC has been described as one of the most vital safety advances of the past decade. At the core of DSTC, sensors register the car's direction and roll rate. The system compares this with steering wheel movements as well as the actual rotation of the car's wheels. DSTC is able to detect a potential skid and help counteract this by reducing the engine's power output, or braking on one or more wheels. Further developed in the XC60 utilising a roll rate sensor, this technology also adds to stability in dynamic driving where the vehicle is exposed to high lateral forces.

## BLIS (Blind Spot Information System)

BLIS is designed to help the driver keep a lookout on either side of the car. As a vehicle enters your blind spot, this function can alert you with a lamp built in to the front door post – left or right. Together with the door mirrors, BLIS helps you assess the feasibility of a lane change. BLIS is activated once the car exceeds 10 km/h, and reacts to almost any type of vehicle from a motorcycle upwards, day or night.



Bringing intelligent vehicles to the road...