



2024





ASSISTANCE COMPETENCE

76%

SAFETY BACKUP





## **SPECIFICATIONS**

SYSTEM NAME	Driving Assistant Professional	
Intended Operation Design Domain	● Highway ● Inter-Urban 💥 Urban	

RECOMMENDED



NOT RECOMMENDED

### Comments

BMW's appropriately named Driving Assistant Professional' accurately portrays system functionality. The promotional material and the handbook correctly indicate the limitations of the system capabilities. System status information is clearly displayed in the driver's direct line of sight by a head-up display. The i5 monitors that the driver's hands are on the steering wheel. The car's direct driver monitoring system is used only to ensure the driver is not incapacitated. The system balances driver steering input with lane guidance, promoting co-operative driving.

The i5 combines map-based speed limit information with real time camera inputs to manage fixed, variable and temporary speed limit signs. However, the system does not adapt speed for upcoming road features such as curves and junctions. The car responds to avoid or mitigate a collision in all of the test scenarios for automatic cruise control. The driver is supported through the S-Bend, staying within the lane at all test speeds. The BMW has a lane change assist feature. In the case of an unresponsive driver, the i5 performs a controlled stop within its lane. If the radar or camera is blocked the i5 provides a timely warning and prevents system activation.

The i5 from BMW balances a high level of Vehicle Assistance with a similar level of Driver Engagement. Combined with excellent safety back-up, the system, overall, offers Very Good highway assistance.

#### Disclaimer

When using Assisted Driving Systems (also known as SAE Level 2 systems), a driver's responsibilities include monitoring the system's control of speed, braking and steering at all times, strict compliance with traffic rules, and maintaining situational awareness throughout the journey.

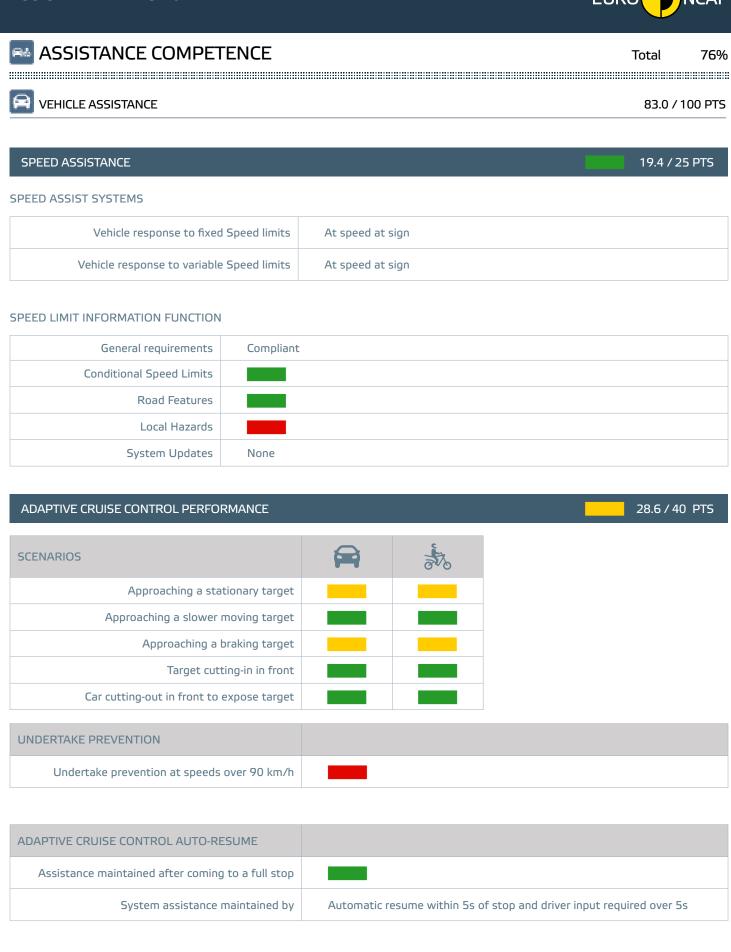
Certain situations might negatively influence the system's performance (e.g. poor weather, faded lane markings, construction zones, exiting a tunnel), resulting in a sudden interruption of the lateral and/or longitudinal support (system disengagement). Moreover, the system may fail to detect certain road users such as motorcyclists not directly in front of the vehicle, or stationary objects.

Appropriate fitness to drive is critical for safe travel, even when using Assisted Driving Systems. Visual distraction (e.g. eyes off the road), impairment (e.g. drowsiness, intoxication) as well as unresponsiveness, poses high risks. It is highly recommended to keep your hands on the steering wheel at all times to ensure immediate reaction when the system disengages.



ASSISTANCE COMPETENCE		Total 76%	
RIVER ENGAGEMENT			76.0 / 100 PTS
CONSUMER INFORMATION			23.0 / 25 PTS
System Name	Driving Assistant Professional		
Marketing Material	Driving Assistant Professional 🗹	Viewed 15 October 2024	
Quick Start Guide	•		
Vehicle Handbook	■ Viewed 15 October 2024		
SYSTEM STATUS			25.0 / 25 Pts
Continuous System Status Indicator			
System Status Change Indicator			
DRIVER MONITORING			5.0 / 20 PTS
Hands-on Monitoring			
Direct Driver Monitoring			
DRIVING COLLABORATION			23.0 / 25 Pts
Increase in Steering Torque			
Override response			
System continues to assist while driver	teers to avoid obstacle		
GOOD ADE	QUATE MARGINAL	WEAK	POOR





**MARGINAL** 

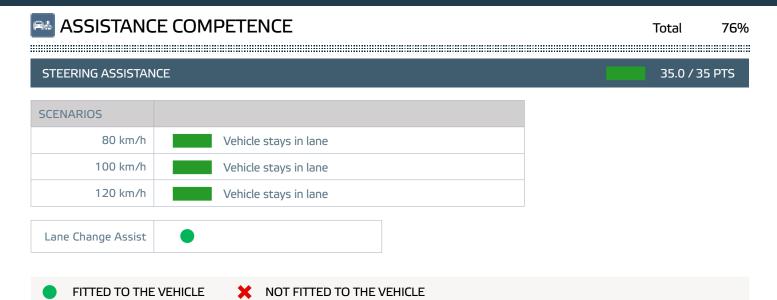
GOOD

**ADEQUATE** 

POOR

WEAK





GOOD

ADEQUATE

MARGINAL

WEAK

POOR



# SAFETY BACKUP

Total

90%

SYSTEM FAILURE	23.3 / 25 PTS	

	ENGAGEMENT	WARNING		
SENSOR BLOCKED AT START-UP				
Camera	Full blockage after a 5 minute drive	Yes after sensor blocking		
Radar	Partial blockage after a 5 minute drive	Yes after sensor blocking		
SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM INACTIVE				
Camera	Full blockage after a 5 minute drive	Yes after sensor blocking		
Radar	After a 5 minute drive	After sensor blocking		
SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM ACTIVE				
Camera	Full blockage within 2 minutes after blocking	Unknown (no OEM data) after sensor blocking		
Radar	Partial blockage after sensor blocking	Unknown (no OEM data) after sensor blocking		

## UNRESPONSIVE DRIVER INTERVENTION

20.0 / 25 PTS

Hands Off Warning Timeline

COLLISION AVOIDANCE





0

47.6 / 50 PTS

 $\triangleright$ 

time

SCENARIOS		**************************************	<b>大</b>
Approaching a stationary target			_
Approaching a slower moving target			_
Approaching a braking target			_
Target cutting-in in front			_
Car cutting-out in front to expose target			_
Approaching the target along the roadside	_	_	

GOOD

ADEQUATE

MARGINAL

WEAK

POOR