



Toyota Yaris
Toyota Safety Sense

2021

ENTRY



ASSISTANCE
COMPETENCE



56%

SAFETY
BACKUP



53%

SPECIFICATION

SYSTEM NAME	Toyota Safety Sense
Version Tested	Hybrid
STANDARD ACTIVE SAFETY SYSTEMS	
AEB Car-to-Car	●
AEB Vulnerable Road User	●
Lane Support Systems	●
Speed Assistance Systems	●

Comments

Toyota's appropriately named Toyota Safety Sense accurately portrays the functionality of the latest generation of the system. The promotional material and the handbook correctly indicate the limitations of the system capabilities. Status information is clear, and the Yaris offers a head-up display showing the system status in the driver's direct line of sight. Toyota did not equip the Yaris with an internal camera and the car relies only on steering wheel input for Driver Monitoring. The system balances driver steering input with lane guidance, promoting co-operative driving.

When equipped with the optional navigation system, the Yaris combines map-based speed limit information with real time camera inputs to manage fixed, variable and temporary speed limit signs. The system cannot adapt speed for upcoming road features such as curves and junctions. The Yaris avoids a collision with moving vehicles in the ACC test scenarios but responds to stopped cars only at the lower test speeds and requires AEB interventions in the more critical cut-in and cut-out tests.

The driver is supported through the S-Bend but the system stays centred in the lane only at the lowest test speed. The vehicle has an Active Blindspot system designed to prevent lane changing into adjacent vehicles, but the system did not meet Euro NCAP's test requirements. A lane-change assist function is not available. In case of an unresponsive driver, the Toyota deactivates the system leaving the vehicle without control. If the radar or camera are blocked the Yaris provides a timely warning and prevents system activation.

The Toyota Yaris provides the essential functionality required for Vehicle Assistance which is supported by good Driver Engagement but lacks the sophistication of more advanced systems resulting in an Entry level grading.

ASSISTANCE COMPETENCE

Total 56%

DRIVER ENGAGEMENT

79.3 / 100 PTS

CONSUMER INFORMATION 20.0 / 25 Pts

SYSTEM NAME	Toyota Safety Sense
MARKETING MATERIAL	Toyota Safety Sense Toyota Viewed 12 November 2021
QUICK START GUIDE	
VEHICLE HANDBOOK	Viewed 12 November 2021

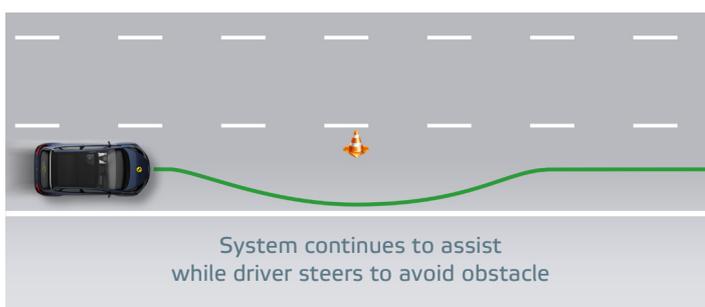
SYSTEM STATUS 24.3 / 25 Pts

Continuous System Status Indicator	
System Status Change Indicator	

DRIVER MONITORING 10.0 / 25 Pts

DRIVING COLLABORATION 25.0 / 25 Pts

Steering to avoid an obstacle



GOOD	ADEQUATE	MARGINAL	WEAK	POOR
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ASSISTANCE COMPETENCE

Total 56%

VEHICLE ASSISTANCE

56.0 / 100 PTS

SPEED ASSISTANCE

10.2 / 25 Pts

SPEED ASSIST SYSTEMS

Vehicle response to fixed Speed limits	Start slowing down after sign
Vehicle response to variable Speed limits	Start slowing down after sign

ROAD FEATURES

Speed adaptation for corners



Speed adaptation for roundabouts



Speed adaptation for junctions



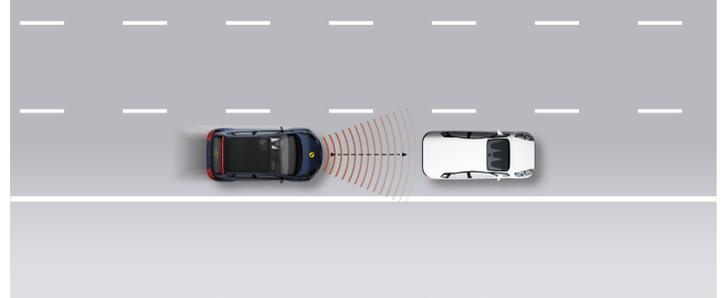
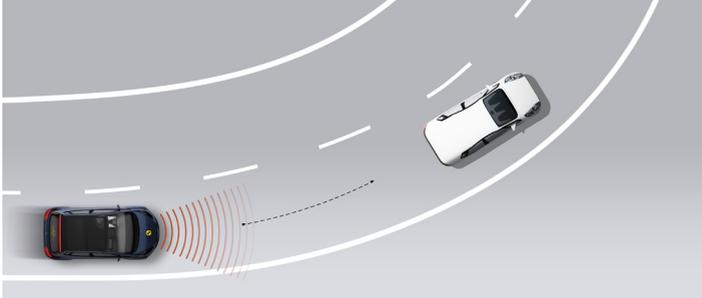
● FITTED TO THE VEHICLE — NOT AVAILABLE

ASSISTANCE COMPETENCE

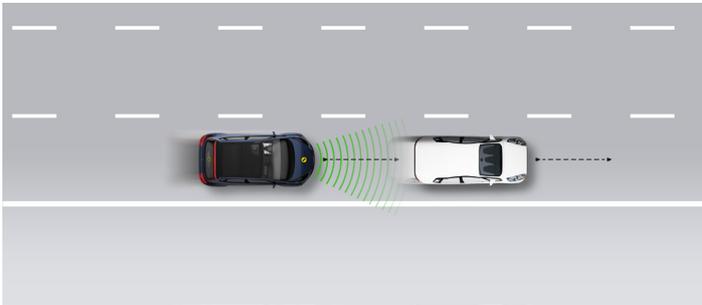
Total 56%

ADAPTIVE CRUISE CONTROL PERFORMANCE 23.3 / 40 Pts

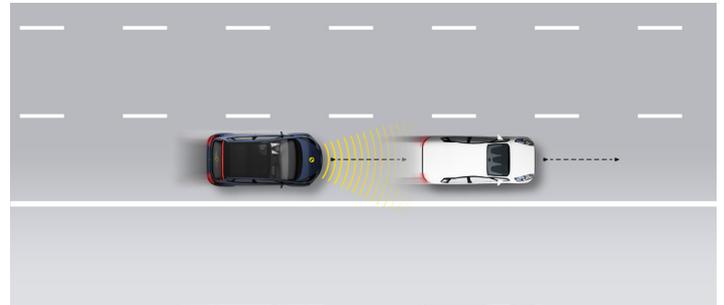
Approaching a stationary car



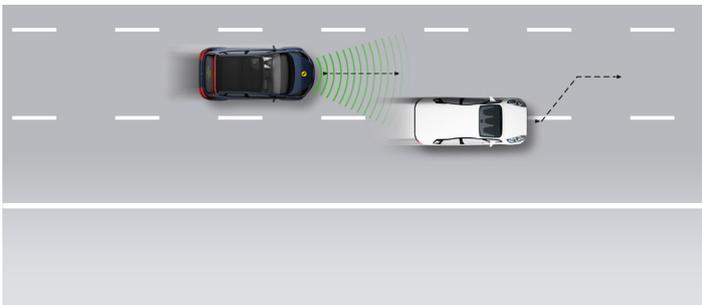
Approaching a slower moving car



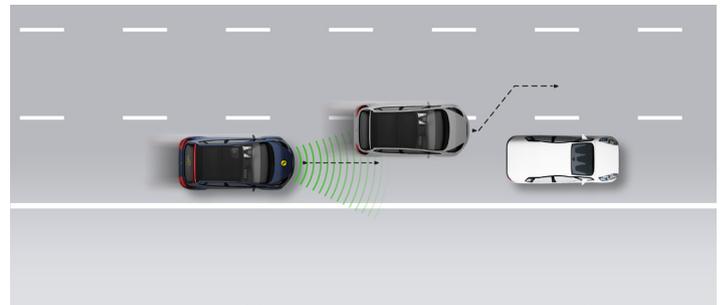
Approaching a braking car



Car cutting-in in front



Car cutting-out in front



UNDERTAKE PREVENTION	
Undertake prevention at speeds over 90 km/h	✗

ADAPTIVE CRUISE CONTROL AUTO-RESUME	
Assistance maintained after coming to a full stop	●
System assistance maintained by	Automatic resume within 5s of stop and driver input required over 5s

ASSISTANCE COMPETENCE

Total 56%

STEERING ASSISTANCE 22.5 / 35 Pts

Steering in an S-curve



80 km/h	●
100 km/h	●
120 km/h	●
Lane Change Assist	✘

SAFETY BACKUP

Total 53%

SYSTEM FAILURE 25.0 / 25 Pts

	ENGAGEMENT	WARNING
SENSOR BLOCKED AT START-UP		
Camera	System can NOT be engaged after a 5 minute drive	Visual Warning within 5 minutes after sensor blocking
Radar	System can NOT be engaged after a 5 minute drive	Visual Warning within 5 minutes after sensor blocking
SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM INACTIVE		
Camera	System can NOT be engaged after a 5 minute drive	Visual Warning within 5 minutes after sensor blocking
Radar	after a 5 minute drive	after sensor blocking
SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM ACTIVE		
Camera	within 2 minutes after blocking	after sensor blocking
Radar	after sensor blocking	after sensor blocking

UNRESPONSIVE DRIVER INTERVENTION 0.0 / 25 Pts

Hands Off Warning Timeline

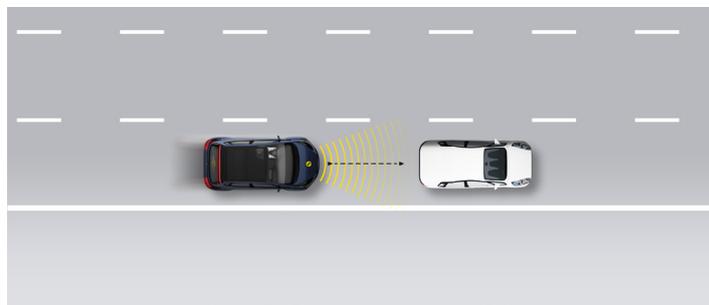
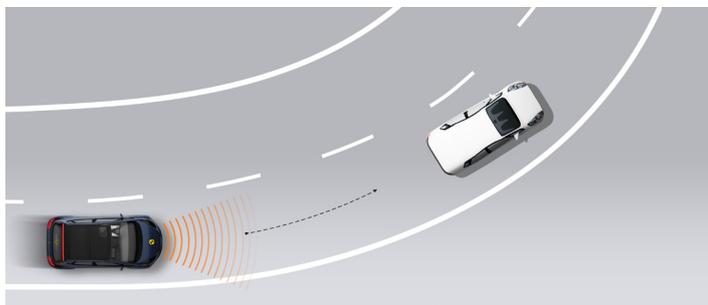


 SAFETY BACKUP

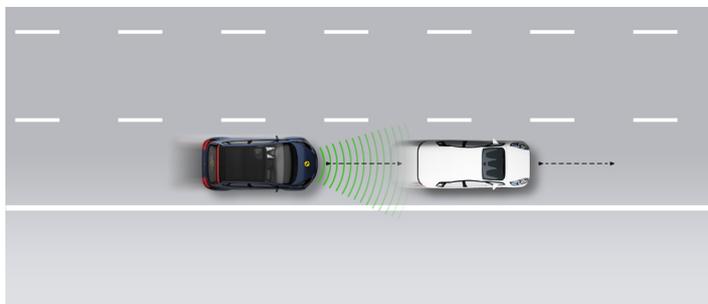
Total 53%

COLLISION AVOIDANCE  28.0 / 50 Pts

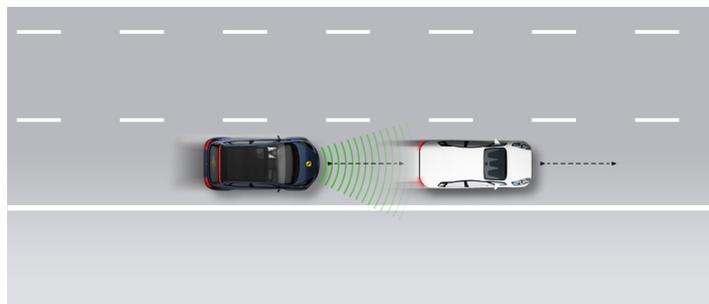
Approaching a stationary car



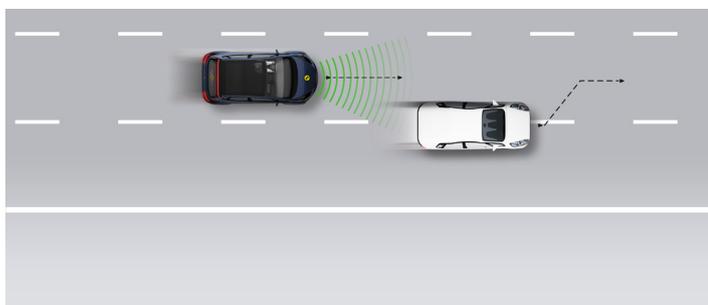
Approaching a slower moving car



Approaching a braking car



Car cutting-in in front



Car cutting-out in front

