TEST RESULTS





2021 📩 📩 📩



Adult Occupant Child Occupant

 Adult Occupant
 Child Occupant

 82%
 Image: Child Occupant

 Vulnerable Road Users
 Safety Assist

 Image: Child Occupant
 Image: Child Occupant

 Vulnerable Road Users
 Safety Assist

 Image: Child Occupant
 Image: Child Occupant

 Image: Child Occupant
 Safety Assist

 Image: Child Occupant
 Image: Child Occupant

 Image: Child Occupant
 Safety Assist

SPECIFICATION

Tested Model	NIO ES8, 6 seat, LHD		
Body Type	- 5 door SUV		
Year Of Publication	2021		
Kerb Weight	2435kg		
VIN From Which Rating Applies	- all ES8s		
Class	Large Off-Road		



SAFETY EQUIPMENT

	Driver	Passenger	Rear
FRONTAL CRASH PROTECTION			
Frontal airbag	•	٠	—
Belt pretensioner	•	٠	•
Belt loadlimiter	•	•	•
Knee airbag	×	×	
LATERAL CRASH PROTECTION			
Side head airbag	•	•	•
Side chest airbag	•	•	×
Side pelvis airbag	•	•	×
Centre Airbag	×	×	_

Euro NCAP © NIO ES8 Sept 2021 2/18



SAFETY EQUIPMENT (NEXT)

	Driver	Passenger	Rear
CHILD PROTECTION			
Isofix	_	×	٠
Integrated CRS	<u> </u>	×	×
Airbag cut-off switch	_		_
SAFETY ASSIST			
Seat Belt Reminder	•		٠

OTHER SYSTEMS	
Active Bonnet	*
AEB Vulnerable Road Users	
AEB Pedestrian - Reverse	*
AEB Car-to-Car	
Speed Assistance	
Lane Assist System	

Note: Other equipment may be available on the vehicle but was not considered in the test year.

Fitted to the vehicle as standard

○ Not fitted to the test vehicle but available as option or as part of the safety pack

🗙 Not available 🛛 — Not applicable





Rear Impact



Rear Seat



Front Seat

3.7 / 4 Pts





Comments

The passenger compartment of the ES8 remained stable in the frontal offset test. Dummy numbers showed good protection of the knees and femurs of both the driver and passenger. NIO showed that a similar level of protection would be provided to occupants of different sizes and to those sitting in different positions. Analysis of the deceleration of the impact trolley during the test, and analysis of the deformable barrier after the test, revealed that the ES8 would be a aggressive impact partner in a frontal collision. In the full-width rigid barrier test, good or adequate protection was provided to all critical body areas, for both the driver and rear passenger. In the film of the test, it can be seen that part of the B-pillar trim becomes detached during the test. This was due to incorrect re-fitting of the trim by the test laboratory after acceleration sensors were installed, and is not a characteristic of the vehicle. Dummy readings were unaffected by the detached trim and a re-test was deemed unnecessary. In the side barrier test, protection of all critical body areas was good and the car scored maximum points in this part of the assessment. In the more severe side pole impact, protection of the driver's chest was rated as marginal, based on dummy readings of rib compression. Excursion (the extent to which a body is thrown from one side of the vehicle to the other when it is struck on the far side) was marginal. The ES8 is not equipped with a counter-measure to protected against occupant to occupant injury in such impacts. Tests on the front seats and head restraints demonstrated good protection. The ES8 is equipped with multi-collision braking, to prevent secondary impacts, and has an advanced eCall system which alerts the emergency services of the vehicle's location in the event of a serious accident.







Restraint for 6 year old child: *Britax Römer KidFix II S* Restraint for 10 year old child: *Britax Römer KidFix II S*

Safety Features

6.0 / 13 Pts

	Front Passenger	2nd row outboard	2nd row center	3rd row outboard
Isofix	×	•	×	•
i-Size	×	•	×	×
Integrated CRS	×	×	×	×

Fitted to test car as standard

Not on test car but available as option

🗙 Not available



11.5 / 12 Pts

CRS Installation Check

🔵 Install without problem

😑 Install with care

🛑 Safety critical problem

🗙 Installation not allowed

i-Size CRS



Maxi Cosi 2way Pearl & 2wayFix (i-Size)





Britax Römer TriFix2 i-Size (i-Size)

BeSafe iZi Flex FIX i-Size (i-Size)



ISOFIX CRS





Cybex Solution Z i-Fix (ISOFIX)





🔄 CHILD OCCUPANT

Total 41.5 Pts / 84%

Universal Belted CRS



Cybex Solution Z i-Fix (Belt)



Maxi Cosi Cabriofix & EasyFix (Belt)









Total 41.5 Pts / 84%

		Seat Position				
	Front		2nd row		3rd row	
	PASSENGER	LEFT	CENTER	RIGHT	LEFT	RIGHT
Maxi Cosi 2way Pearl & 2wayFix (i-Size)	_		_	•	_	_
Maxi Cosi 2way Pearl & 2wayFix (i-Size)	_	•		•	_	_
BeSafe iZi Kid X2 i-Size (i-Size)	_				_	_
Britax Römer TriFix2 i-Size (i-Size)	_		_	•	_	_
BeSafe iZi Flex FIX i-Size (i-Size)	_		_	•	_	_
BeSafe iZi Combi X4 ISOfix (ISOFIX)	_		_	•		٠
Cybex Solution Z i-Fix (ISOFIX)	_		_			
Maxi Cosi Cabriofix (Belt)						
Maxi Cosi Cabriofix & EasyFix (Belt)			×		×	×
Britax Römer King II LS (Belt)	•	•		•	•	
Cybex Solution Z i-Fix (Belt)						

Not available

Comments

In both the frontal offset test and the side barrier impact, the ES8 provided good protection to all critical body areas of both the 6 year and 10 year dummy, and scored maximum points in this part of the assessment. The front passenger airbag can be disabled to allow a rearward facing child restraint to be used in that seating position. Clear information is provided to the driver regarding the status of the airbag and the system was rewarded. The user manual states that child restraints that make use of a support leg should not be used in the third row seats. A seven seat variant is available, with three seats in the second row. The centre seat of this second row cannot accommodate universal child restraints. With these exceptions, all child restraints could be properly installed and accommodated in the car.





Vulnerable Road Users

13.1 / 18 Pts

System Name	AEB
Туре	Auto-Brake with Forward Collision Warning
Operational From	6 km/h



K VULNERABLE ROAD USERS

Total 39.3 Pts / 72%

AEB Pedestrian 6.8 / 9 Pts

Day time

Vehicle reversing into standing pedestrian



Adult crossing the road



Adult along the roadside



Night time



Adult along the roadside





Pedestrian crossing a road into which a car is turning

Child running from behind parked vehicles





K VULNERABLE ROAD USERS

Total 39.3 Pts / 72%

AEB Cyclist 6.3 / 9 Pts



Comments

The bonnet surface provided mostly good or adequate protection to the head of a struck pedestrian but poor results were recorded on the stiff windscreen pillars. Protection of pedestrians' legs was predominantly good, although areas of marginal protection were also recorded. Likewise, protection of the pelvis was generally good but with some areas offering weak protection. The autonomous emergency braking (AEB) system of the ES8 can detect vulnerable road users such as pedestrians and cyclists, as well as other vehicles. In tests of its response to pedestrians, it performed well, with collisions avoided in most situations. The system does not include 'AEB reverse' functionality. In tests of the system's reaction to cyclists, it performed adequately.



Occupant Status Monitoring

3.0 / 3 Pts

Applies To		Front and	d rear seats, including optional	third row
Warning	Driver Se	at	Front Passenger(s)	Rear Passenger(s)
Visual	٠		٠	٠
Audible	٠		٠	٠
Occupant Detection	_		•	•
Pass 😑 Fail 💶 Not available				
Driver Monitoring				1.0/1
	System Name	Driver Moni	toring System (DMS)	
	Туре	Direct eye	monitoring and steering inputs	
	Operational From	22 km/h		



SAFETY ASSIST

Total 14.8 Pts / 92%

Lane Support	4.0 / 4 Pts
System Name	LSS
Туре	LKA and ELK
Operational From	65 km/h
PERFORMANCE	
Emergency Lane Keeping	GOOD
Lane Keep Assist	GOOD
Human Machine Interface	GOOD

AEB Car-to-Car

4.8 / 6 Pts

System Name	AEB
Туре	Autonomous emergency braking and forward collision warning
Operational From	6 km/h
Sensor Used	camera and radar





Total 14.8 Pts / 92%

Autobrake function only



Approaching a stationary car



Approaching a slower moving car



Approaching a slower moving car





Approaching a stationary car



Approaching a slower moving car



Approaching a braking car





Total 14.8 Pts / 92%

🛜 SAFETY ASSIST

Driver reacts to warning



Approaching a slower moving car



Approaching a slower moving car





Approaching a stationary car



Approaching a slower moving car



Approaching a braking car





🛜 SAFETY ASSIST

Total 14.8 Pts / 92%

Comments

The ES8's AEB system performed well in tests of its response to other vehicles, with collisions avoided or mitigated in the great majority of test situations. The car is equipped with a seatbelt reminder system, including occupant detection, for the front and rear seats and also monitors the driver's eyes and steering inputs for signs of fatigue or impaired driving. Speed assistance is provided by a system which uses a camera and digital mapping to ascertain the local limit, and presents this information to the driver, allowing the speed limiter to be set appropriately. The lane support system gently corrects the vehicle's path if it is drifting out of lane and also intervenes in some more critical situations to prevent the vehicle from leaving the road.



RATING VALIDITY

Variants of Model Range

Body Type	Engine	Model Name	Drivetrain	Rating	Applies
				LHD	RHD#
5 door SUV 6 seat*, 7 seat	electric	ES8	4 x 4	~	-

* Tested variant

Available as LHD only

Annual Reviews and Facelifts

Date	Event	Outcome	
September 2021	Rating Published	2021 ★ ★ ★ ★	~