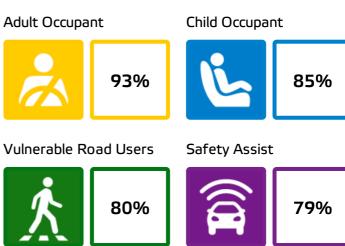
## **TEST RESULTS**











## SPECIFICATION

Tested Model	NIO EL7, 20" rim 75kWh Battery, LHD
Body Type	- 5 door SUV
Year Of Publication	2023
Kerb Weight	2346kg
VIN From Which Rating Applies	- all EL7's
Class	Large SUV



# SAFETY EQUIPMENT

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

	Driver	Passenger	Rear
CHILD PROTECTION			
Isofix/i-Size	—	×	•
Integrated CRS	—	×	×
Airbag cut-off switch	—	٠	—
Child presence detection	—	×	•
SAFETY ASSIST			
Seat Belt Reminder	•	٠	•



# SAFETY EQUIPMENT (NEXT)

OTHER SYSTEMS	
Active Bonnet	×
AEB Vulnerable Road Users	•
AEB Pedestrian - Reverse	•
Cyclist Dooring Prevention	•
AEB Motorcyclist	•
AEB Car-to-Car	•
Speed Assistance	•
Lane Assist System	•
Fatigue / Distraction Detection	•

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

Fitted to the vehicle as standard

ndard O Fitted to the vehicle as part of the safety pack

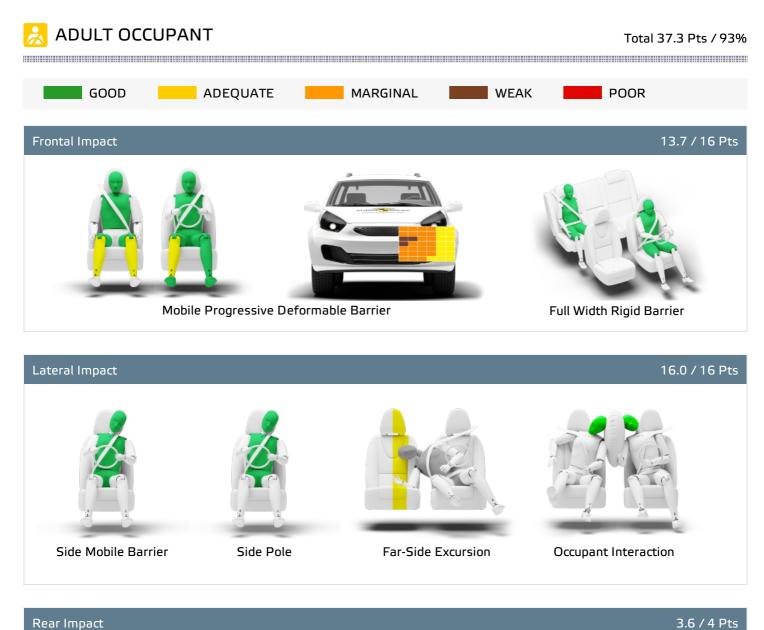
🗙 Not available

— Not applicable

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

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### Rear Impact

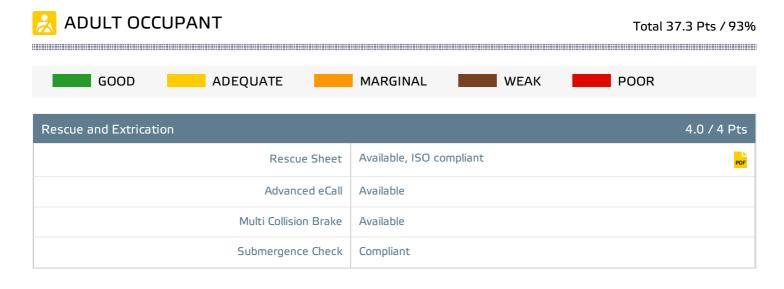


Rear Seat



Front Seat





#### Comments

The passenger compartment of the EL7 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 EL7 would be a somewhat aggressive impact partner in a frontal collision. In the full-width rigid barrier test, good protection was provided to all critical body areas for both the driver and rear passenger, and the car scored maximum points in this part of the assessment. In both the side barrier test and the more severe side pole impact, protection of all critical body areas was good and the car scored maximum points. Control of excursion (the extent to which a body is thrown to the other side of the vehicle when it is hit from the far side) was found to be adequate. The EL7 has a counter-measure to mitigate against occupant to occupant injuries in such impacts and this performed well in Euro NCAP's test. Tests on the front seats and head restraints demonstrated good protection. The EL7 has an advanced eCall system which alerts the emergency services in the event of a crash. The car also has a system which applies the brakes after an impact, to avoid secondary collisions. NIO demonstrated that, if the car entered water, the doors and windows of the EL7 would remain functional long enough to allow the occupants to escape.

Euro NCAP © NIO EL7 July 2023 5/14





Restraint for 6 year old child: Cybex Solution Z i-Fix Restraint for 10 year old child: Graco Booster Basic

#### Safety Features

#### Front 2nd row Passenger outboard Isofix × × i-Size X X Integrated CRS X X Top tether X X **Child Presence Detection** X Fitted to test car as standard

Not on test car but available as option

🗙 Not available

### **CRS Installation Check**

12.0 / 12 Pts

6.0 / 13 Pts

🛎i i-Size	Seat Position				
	Front 2nd row				
		⊗ <b>*</b> 2	Left	center	Right
Ľ	×	×	•	×	•
<ul> <li>Easy</li> <li>Difficult</li> <li>Safety critical</li> <li>Not allowed</li> <li>Airbag ON Rearward facing restraint installation not allowed</li> <li>Airbag OFF</li> </ul>					





# 🔀 CHILD OCCUPANT

### Total 42.0 Pts / 85%

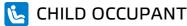
🕲 Isofix	Seat Position					
	Fro	nt		2nd row	2nd row	
		≈;2	Left	center	Right	
	×	×	•	×	•	
	×	×	•	×	•	
Ľ,	*	×	•	×	•	
E	×	×	•	×	•	
	×	×	•	×	•	
	×	×	•	×	•	
🔵 Easy 🔶 Difficult 🔴 S	Safety critical	🕻 Not allowed	II		1	

🙀 Airbag ON Rearward facing restraint installation not allowed 🛛 👷 Airbag OFF

Seatbelt Attached Seat Position Front 2nd row ⊗. ∕2 Left center Right R. × K X Ľ × E × X A X Difficult 🔵 Easy Safety critical 🗙 Not allowed Airbag ON Rearward facing restraint installation not allowed 💐 Airbag OFF

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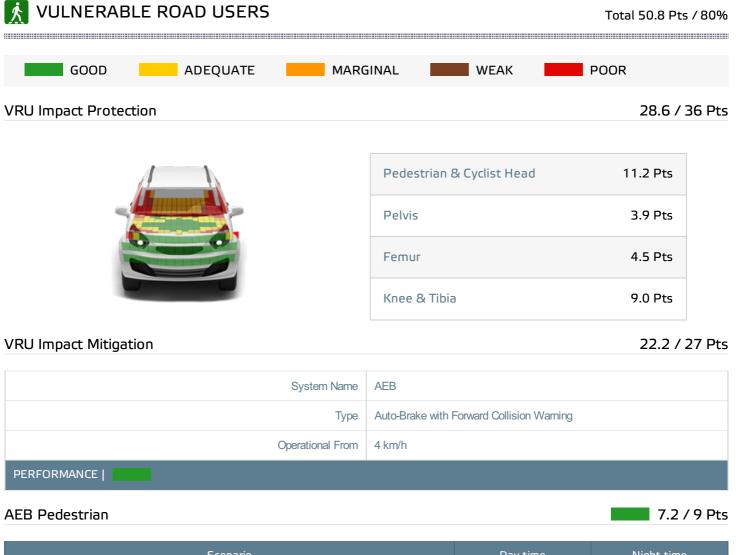


Total 42.0 Pts / 85%

#### Comments

In both the frontal offset and side barrier tests, good protection was provided to all critical body areas for both child dummies, and the NIO EL7 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 EL7 is equipped with a direct 'child presence detection' system, which issues a warning when it detects that a child or infant has been left in the car. However, the system did not meet Euro NCAP's requirements and was not rewarded. All of the child restraint types for which the EL7 is designed could be properly installed and accommodated in the car.





Scenario	Day time	Night time
Car reversing into adult or child		—
Adult crossing a road into which a car is turning		—
Adult crossing the road		
Child running from behind parked vehicles		
Adult along the roadside		

#### Currently not tested

## AEB Cyclist

7.4 / 8 Pts

Scenario	Day time
Approaching cyclist crossing from behind parked parked vehicles	
Turning across path of an oncoming cyclist	
Approaching a crossing cyclist	
Approaching a cyclist along the roadside	







## Scenario Autobrake function only Driver reacts to warning Approaching a stationary motorcyclist Approaching a braking motorcyclist Turn across the path of an oncoming motorcyclist

#### Currently not tested

#### Lane Support Motorcyclist

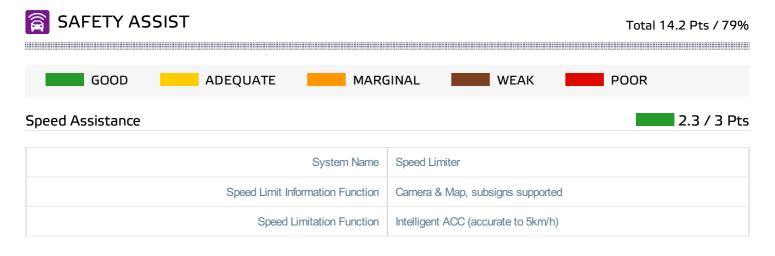
Scenario	Day time
Changing lane across the path of an oncoming motorcyclist	
Changing lane across the path of an overtaking motorcyclist	

#### Comments

Protection of the head of a struck pedestrian or cyclist was almost mostly good or adequate, with poor results recorded only on the stiff windscreen pillars. Protection of the pelvis, femur and tibia was good at all test locations. The autonomous emergency braking (AEB) system of the NIO can respond to vulnerable road users as well as to other vehicles. The system performed well in tests of its response to pedestrians, with marginal performance only in tests of a child running from behind parked vehicles. Performance was good in all bicyclist scenarios apart from dooring, in which the car prevents or warns against door opening if a cyclist is approaching from behind, where performance was marginal. Good or adequate performance was seen in all tests of the NIO EL7's response to motorcyclists.

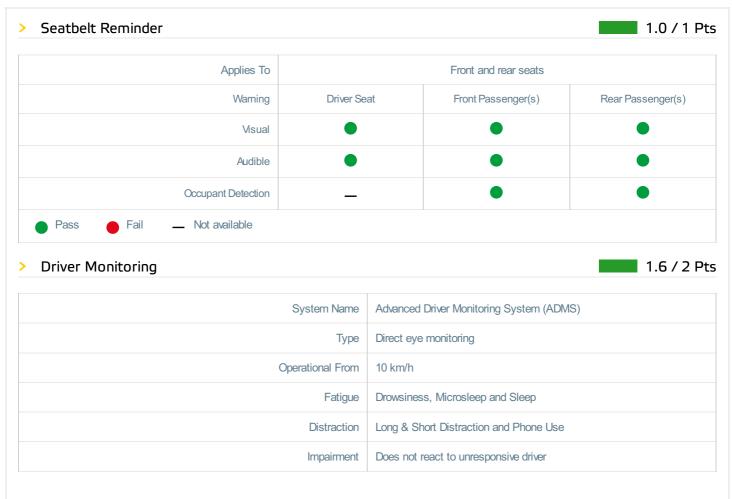
3.0 / 3 Pts





## **Occupant Status Monitoring**

2.6 / 3 Pts



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# 🛜 SAFETY ASSIST

Total 14.2 Pts / 79%

### Lane Support 2.3 / 3 Pts System Name LSS Туре LKA and ELK **Operational From** 50 km/h PERFORMANCE ADEQUATE Emergency Lane Keeping Lane Keep Assist GOOD Human Machine Interface GOOD

### AEB Car-to-Car

7.1 / 9 Pts

System Name	AEB
Туре	Autonomous emergency braking and forward collision warning
Operational From	4 km/h
Sensor Used	Camera, Radar and LIDAR

Scenario	Autobrake function only	Driver reacts to warning
Approaching a car crossing a junction		
Approaching a car head-on		_
Turning across the path of an oncoming car		_
Approaching a stationary car		
Approaching a slower moving car		_
Approaching a braking car		_

Currently not tested



## SAFETY ASSIST

Total 14.2 Pts / 79%

#### Comments

The autonomous emergency braking (AEB) system of the NIO EL7 performed well in tests of its reaction to other vehicles. NIO was not able to verify the car's performance in Euro NCAP's 'head-on' tests and no points were awarded. A seatbelt reminder system is fitted as standard to the front and rear seats and the car is equipped with a system to detect driver fatigue, such as microsleep (very short periods where consciousness is lost) and distraction, such as phone use. 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. The speed assistance system identifies the local speed limit, and the driver can choose to allow the limiter to be set automatically by the system.



## RATING VALIDITY

## Variants of Model Range

Body Type	Engine & Transmission	Drivetrain	Rating Applies	
			LHD	RHD
5 door SUV	75 kWh electric *	4 x 4	$\checkmark$	$\checkmark$
5 door SUV	100 kWh electric	4 x 4	$\checkmark$	~

\* Tested variant

### Annual Reviews and Facelifts

Date	Event	Outcome	
July 2023	Rating Published	2023 ★ ★ ★ ★	~