

AITO 5

Smart-tech Mid-size Sport SUV



Sporty Design

Exterior & Interior



Modern Aesthetics

The sporty design of AITO 5 is Ultimate, Minimalist, and Pure. As a sport SUV, AITO 5 blends natural aesthetics with aerodynamic and typically combine the styling elements of sports cars with the practicality and comfort

Falcon eye LED
headlights with a
closed front grille



Sporty side air intakes &
Streamlined body lines



Sporty rear spoiler with
continuous wing-shaped LED
taillights



Sporty Design

Front Design



Sporty Design

Front Design – Falcon-eye LED headlights



The AITO 5's falcon-eye headlight design is inspired by the keen eyesight and aerodynamic grace of a falcon, combining precision and efficiency for a sharper, more dynamic driving experience. It is complemented by a full LED system with adaptive high and low beam functionality

The falcon-eye headlight design offers a distinctive appearance, enhanced visibility, and a modern, futuristic feel



Improved safety with a wider range of illumination

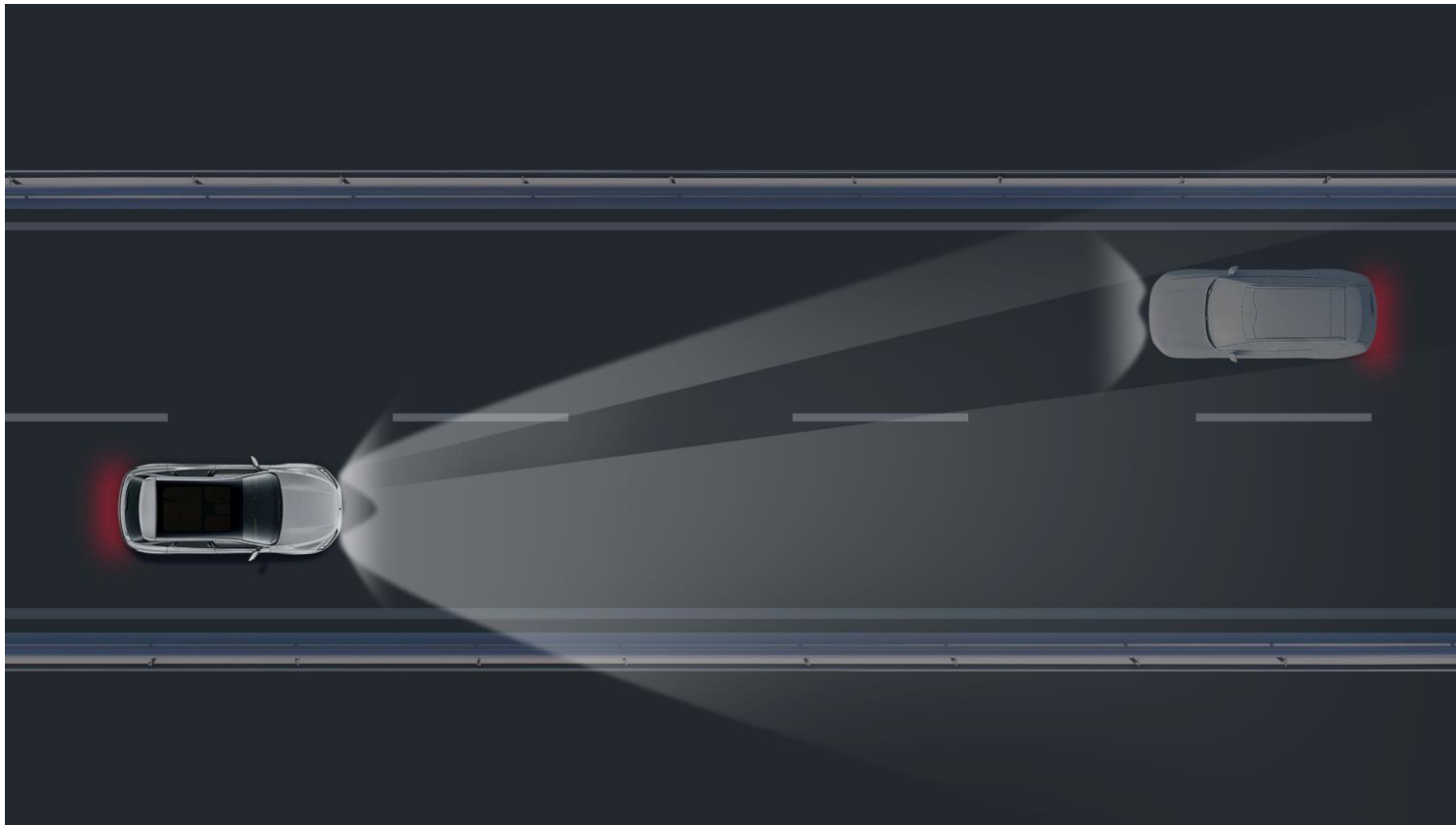


One sentence Highlights

Falcon-eye headlights offer not just a distinctive appearance and better illumination, but adds a contemporary and high-tech feel to the vehicle's front end

Sporty Design

Front Design – Falcon-eye LED headlights



Adaptive High Beam Assist (HMA)

HMA is a headlamp control function that uses driver assistance sensors in the front windshield to detect the taillights of vehicles ahead, the headlights of oncoming vehicles and streetlights, and automatically switches the high beam on and off; when the driving environment is dark and there are no vehicles or streetlights ahead, the function automatically switches the high beam on and, in the opposite situation, switches the low beam on.

Activation speed: over 20km/h

Activation conditions:

Ambient brightness, turn signals not activated

One sentence
Highlights

Automatic switching of high and low beams according to the environment, for your safety and the safety of other vehicles

Sporty Design

Front Design – Closed front grille



Closed front grille

Reduced driving wind resistance

Improves overall vehicle economy



One sentence Highlights

The closed intake grille improves aerodynamics and reduces air resistance, enhancing fuel efficiency and stability at high speeds.

Sporty Design

Front Design – Sporty side air intakes



The AITO 5's side air intake typically combine the styling elements of sports cars with the practicality and comfort of an SUV

Both visually appealing and highly functional



One sentence
Highlights

At high speeds, the side air intake design effectively reduces aerodynamic drag and improves airflow, enhancing engine cooling and performance, which in turn lowers overall vehicle energy consumption.

Sporty Design

Streamlined Body Lines



The AITO 5's streamlined body design is visually appealing and also helps to reduce the drag coefficient

Streamlined body lines that convey a sense of speed and a stable sporty stance



One sentence Highlights

The smooth side contours reduce aerodynamic drag and wind noise, enhancing vehicle stability, energy efficiency, and providing a quieter, more comfortable driving experience.

Sporty Design

Rear Design

Sporty rear spoiler

Sports car-like design for eye catching

Increased downforce

Continuous wing-shaped LED taillights

High visibility at night
with soft and even lighting



Sporty Design

Rear Design – Sporty rear spoiler



Sporty rear spoiler

- Inspired by sports car design
- Enhancing the full, sporty profile
- Increased aerodynamic downforce



One sentence Highlights

Increase the sportiness of the rear end while increasing the downforce to enhance the stability of the vehicle

Sporty Design

Rear Design – Continuous wing-shaped LED taillights



Continuous wing-shaped LED taillight

- Taillights is uniquely sophisticated and distinctive
- High visibility at night
- Soft and even lighting



One sentence Highlights

The wing-shaped LED taillights enhance the vehicle's visual impact and technological appeal, while also improving night driving safety, increasing visibility, and boosting the overall driving experience and vehicle uniqueness.

4WD Version: Sporty Design

All-black Trims & Logo



The 4WD version is standard with all-black trims, including logo, window frame, wheel hub, etc.



One sentence Highlights

The black trim accents enhance its sporty and aggressive look, while lending the vehicle a more dynamic and premium feel.

Sporty Design

Sporty Wheels



20" dual-arm 5-spoke
wheel
(255/45 R20) with red
calipers



20" all-black wheel
(255/45 R20) with red
calipers

One sentence Highlights

20-inch wheels and sports red calipers for enhanced driving dynamics and superior safety, delivering an exhilarating sporty feel while ensuring optimal braking performance

Sporty Design

Vehicle Size



AITO 5



1930mm

Track front: 1655mm



2880mm

4785mm

1625mm

Track rear: 1650mm

Ground clearance (mm): 150 (laden)-170 (unladen)

Sporty Design

Exterior Colors



5 exterior colors to choose



* The exterior color options may vary and additional choices may be available depending on the region and version. Please refer to the actual sales at the store for final confirmation.

Sporty Design

Interior Colors



3 interior colors to choose



Camel



Beige



Burgundy

* The interior color options may vary depending on the region and version. Please refer to the actual sales at the store for final confirmation.

One sentence
Highlights

The beige interior with a Nappa leather steering wheel features a unique design, offering both striking visual appeal and exceptional comfort. The burgundy interior highlights the vehicle's sporty genes, while the wood trim panels enhance the luxurious atmosphere.

Extraordinary Performance

Worry-free Range

Ultimate Performance

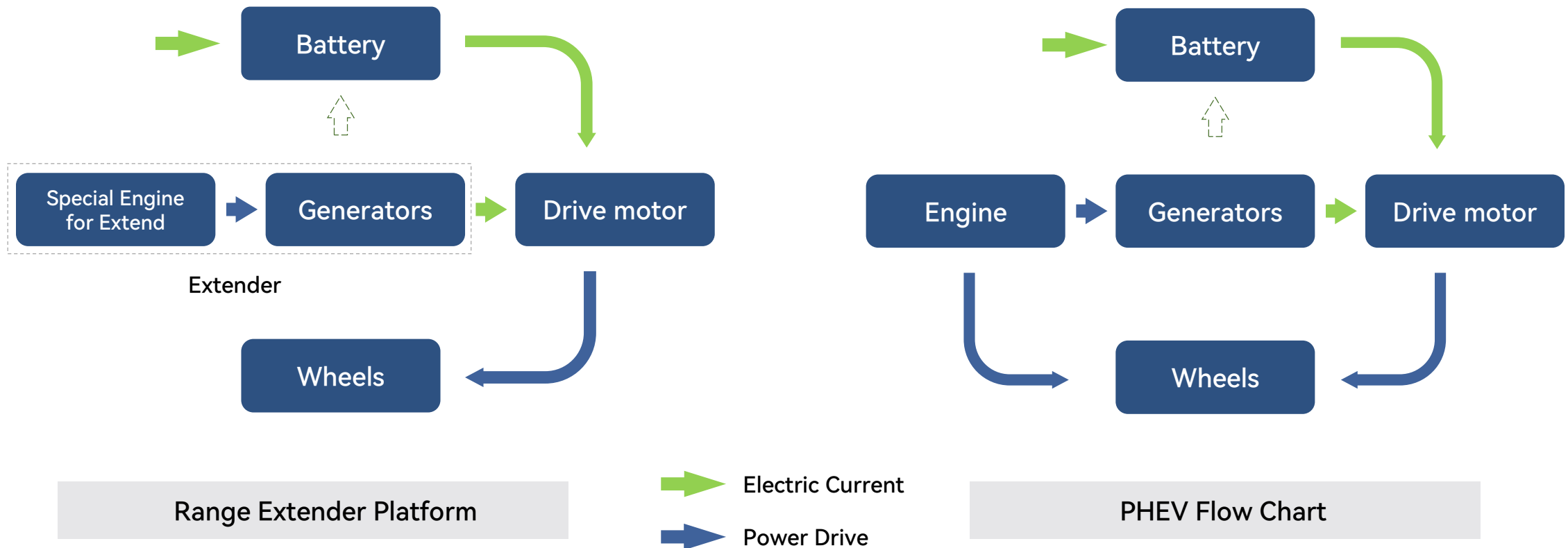


Leading Performance

Worry-free Range – Range extender platform



Range Extender Platform v.s. PHEV – Energy Flow Chart



Leading Performance

Range Extender Platform



3.44kWh/L: the highest fuel-to-electricity conversion efficiency in the industry



1210km WLTP

Extremely long range

95% high-efficiency overlap rate

between the range extender and generator

15:1

Industry's first mass-produced 15:1 high compression ratio engine

3.44kWh·/L

fuel-to-electricity conversion efficiency

41% ultra-high thermal efficiency

Highest in class 41% thermal efficiency

75kW

Maximum generation power

One sentence Highlights

Offers a high fuel-to-electricity conversion efficiency, providing users with super longer driving range and reduced fuel consumption, leading to cost savings and a more worry-free driving experience.

Leading Performance

Range Extender Platform



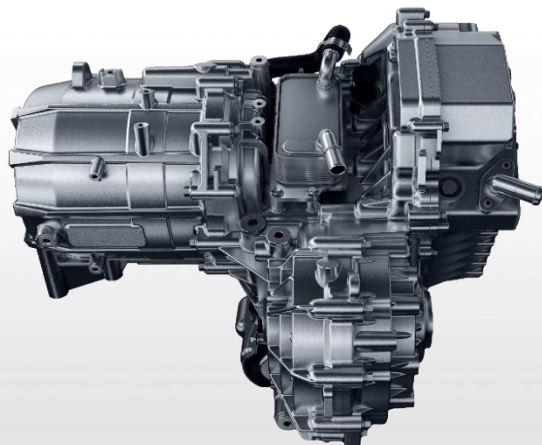
Dual-motor AWD, Front ASM+ Rear PMSM

Dual-motor AWD: 365kW power, 675N·m torque, 0-100 km/h in 4.3s

Power: **165kW**
Torque: **315N·m**

Front ASM

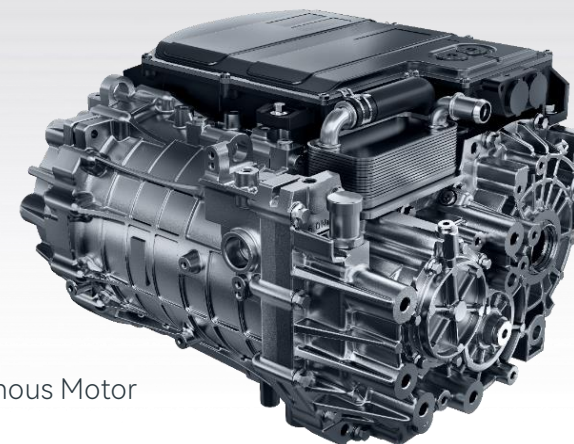
Asynchronous Motor



Power: **200kW**
Torque: **360N·m**

Rear PMSM

Permanent Magnet Synchronous Motor



**One sentence
Highlights**

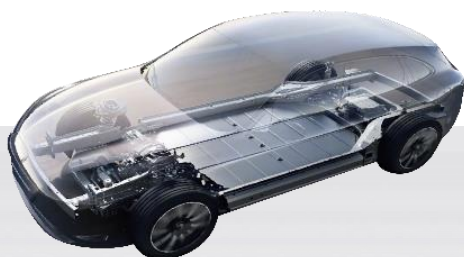
The dual-motor AWD system can provide users with powerful performance that rivals large-displacement fuel vehicles, enhancing the vehicle's handling

Leading Performance

Range Extender Platform



RE+EV =



+



+



(Range Extended
Electric Vehicle)

Electric Drive
Smooth Acceleration
Quietness and Comfort

42kWh Battery
> 200km Range

Can generate > 190kWh
Extending 1000km Range

Refueling in 5 minutes
Just like a gasoline car

One sentence
Highlights

With the range extender, our fuel tank can be transformed into a large battery capable of up to 193 kWh (like a “power bank”). In just 5 minutes, it fills up with fuel, providing an additional 1000km of range, leaving us worry-free.

Leading Performance

Range Extender Platform



All-scenario Coverage



Electric in the crowded city with fuel for long trips

Electric in the city, with fuel for long trips. Customer can switch between electric and fuel solutions, without worry about finding a charging spot.

Energy Efficiency



Energy efficiency, double the performance, half the consumption

Double the performance, half the consumption. Based on a 1.5T engine, AITO 9 can reach the performance of a traditional 3.0T fuel vehicle.

User Experience



Experience of an all-electric car with no range anxiety

Not only keeps the cabin quiet, but also offers smooth acceleration and quick response like pure electric cars. Additionally, with features like V2L external discharge, it helps users extend their daily lives.

Intelligent Control System



Intelligent control system understands your needs

Intelligent range extender system can learn user's driving habits, charging options and road conditions, to optimize the energy consumption strategy.

One sentence Highlights

The range extender system provides all-scenario coverage, enhancing energy efficiency and offering a good user experience, while intelligent control optimizes energy strategy, extending driving range and reducing range anxiety.

Leading Performance

AITO MF Platform



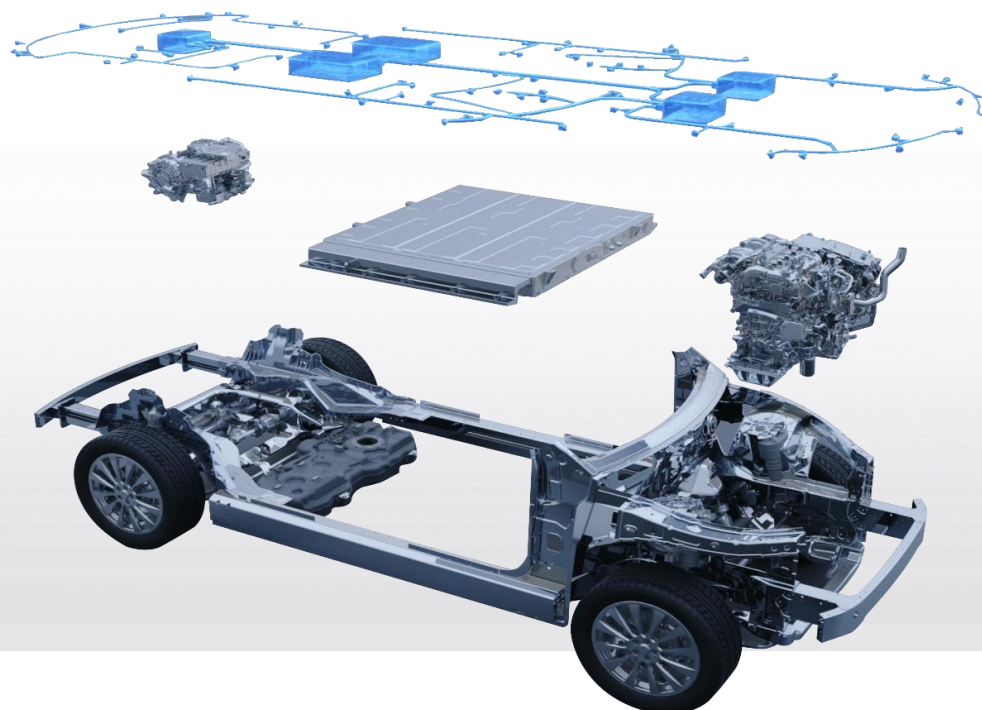
AITO MF Platform

Intelligent Safety

Industry-first intelligent safety system

Diverse Powertrain

The only solution in the industry compatible with three types of new energy powertrains: super range extender, pure electric, and super hybrid.



Versatile Space

Full-size and all-model expansion

Leading Intelligence

Central computing architecture achieves 100% SOA for the first time

One sentence Highlights

With twenty years of experience in vehicle development, AITO has independently developed a super-intelligent platform that is versatile and continuously evolving.

Extraordinary Performance

100% Aluminum Chassis



100% aluminum alloy chassis, unique in its class, luxury feel

Light weight

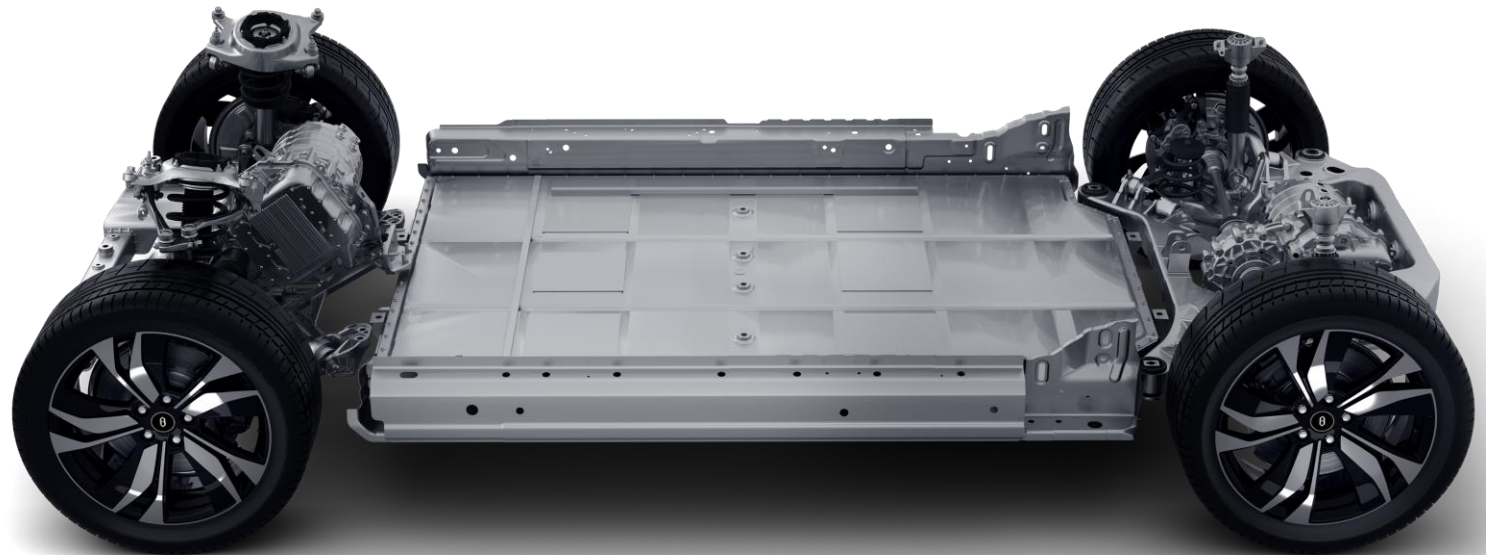
It lightens the vehicle weight, reduces energy consumption, and increases driving range

Light suspension

It decreases the mass of suspension components, improving vehicle handling

Strong structure

It enhances the structural strength of the chassis, improves driving stability, and optimizes performance on various road conditions



One sentence Highlights

The car's underbody structure is fully made of lightweight aluminum alloy, delivering the same premium benefits found in high-end luxury SUVs, including enhanced performance and efficiency.

Extraordinary Performance

Front Double-wishbone Independent Suspension



Double-wishbone suspension, also known as a double A-arm suspension



The double wishbone front suspension offers improved handling, better camber control, and reduced body roll. It provides precise wheel control, enhances stability, and ensures a more responsive and comfortable ride, making it ideal for high-performance and luxury vehicles.

Improved Handling

Enhanced Ride

Comfort

Adjustability

Greater Control

Reduced Body Roll

Aerodynamic Benefits

One sentence Highlights

The double wishbone front suspension provides improved handling, stability, and comfort, enhancing the driving experience. It offers better control over wheel movement, resulting in a smoother ride and greater responsiveness, especially in high-performance situations.

Extraordinary Performance

Rear Multi-link Independent Suspension



Multi-link independent suspension is a standard feature of luxury vehicles



The multi-link rear suspension improves handling, stability, and comfort by allowing independent wheel movement and reducing body roll. Its design ensures better tire contact and is often used in high-performance and luxury vehicles.

Independent Movement

Comfortable Ride

**Responsive
Performance**

Stable Handling

Precise Control

Versatile Design

One sentence Highlights

The multi-link rear suspension enhances driving dynamics by providing superior comfort, precise handling, and improved stability, ultimately offering a more refined and controlled driving experience.

Extraordinary Performance

20-inch Sport Wheels



20-inch sport wheels, red calipers, and Pirelli P-Zero high-performance tires



The 20-inch sport wheels and red brake calipers not only enhance the vehicle's sporty look but also improve handling and braking performance, reducing the braking distance to **36.8** meters from 100-0km/h.

- Excellent Traction
- Great Comfort
- Wet Performance
- Brake Distance

The Pirelli P Zero tire series is a premium, high-performance product designed for luxury sedans, sports cars, and SUVs. Renowned for its exceptional grip and precise handling, the P Zero delivers superior performance on both dry and wet surfaces, ensuring a smooth and

One sentence Highlights

The 20-inch wheels, red brake calipers, and Pirelli tires combine to offer improved handling, enhanced braking performance, and a sportier driving experience, providing both style and confidence on the road.

The image shows the rear passenger area of a car. The seats are upholstered in a light beige leather with visible stitching. A black air vent is located on the left side of the frame. The door panel and interior trim also feature the same beige leather. A red vertical line is positioned to the left of the text.

Luxury Cabin

Luxury Features
Sound System

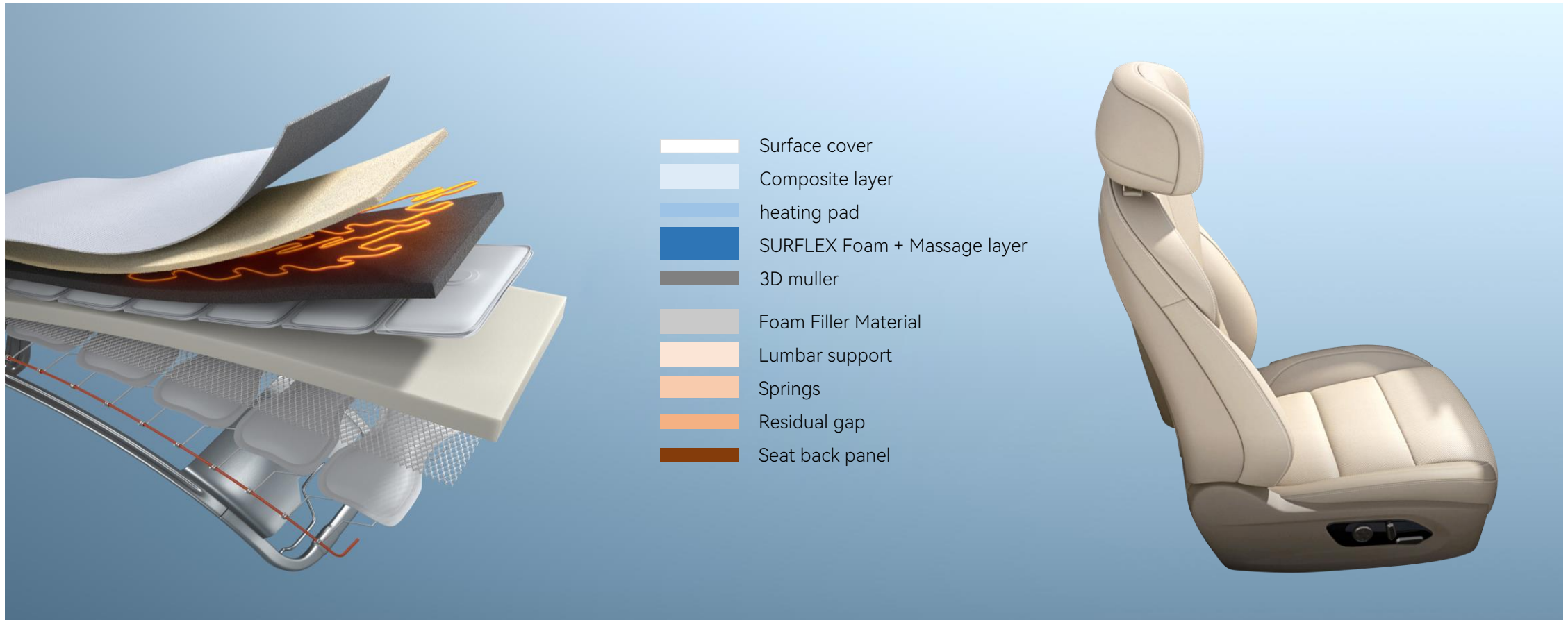
*The interior design is not the final version and will be updated. Please refer to the actual vehicle for the final design.

Luxury Cabin

Comfortable Seats



10-layer stacked sofa cushions, 100mm thick



Luxury Cabin

Comfortable Seats



SURFLEX + 3D Muller foam, first-class experience for every seat

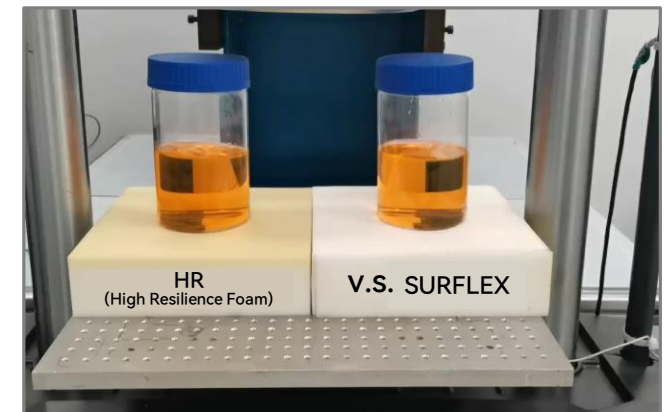
3D Muller

1. Through the use of **3D mesh** (a three-layer structure with varying densities) and **intelligent channel design**, the seat maintains high breathability and stability under pressure, ensuring optimal ventilation for the seat.
2. Premium, eco-friendly materials and design provide uniform pressure distribution and are ergonomically shaped to match the natural curve of the body, offering excellent support and comfort for extended periods of sitting.
3. High durability: The seat is designed to maintain its performance and comfort even after long-term use.



SURFLEX comfort foams (30mm)

1. SURFLEX utilizes a combination of foam layers with varying densities and functions. Each layer is optimized for support, comfort, and breathability. It helps distribute pressure evenly while maintaining long-lasting elasticity and shape, preventing collapse or deformation over time.
2. The filling materials used in SURFLEX meet environmental standards and are made from non-toxic, sustainable materials.



Luxury Cabin

Comfortable Seats

Seats memory

Massage

Ventilation

Heating

12-way electric
adjustable seats

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Luxury Cabin

Ambient Lighting

128-color multi-zone reflective RGB LED ambient lighting

One sentence Highlights

Automotive ambient lighting offers several advantages that enhance the driving and riding experience. The right lighting can create a comfortable and relaxing environment, reducing stress and fatigue during long drives

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Luxury Cabin

Panoramic Sunroof + Electric Sunshade (optional)



Panoramic sunroof + electric sunshade (optional)



One sentence Highlights

The panoramic sunroof enhances the cabin's sense of openness and brings in natural light, creating a brighter, more airy atmosphere while maintaining an elegant, uninterrupted design.

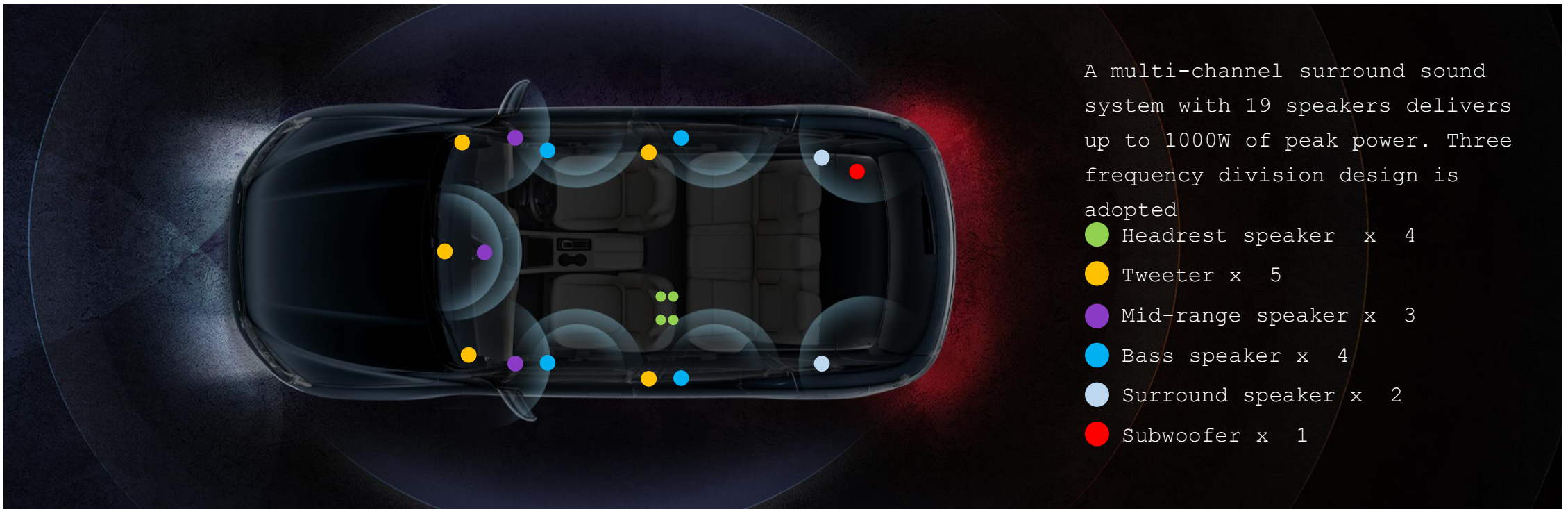
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Luxury Cabin

Sound System



19 speakers, 7.1 surround sound, 1000W amplifier



A multi-channel surround sound system with 19 speakers delivers up to 1000W of peak power. Three frequency division design is adopted

- Headrest speaker x 4
- Tweeter x 5
- Mid-range speaker x 3
- Bass speaker x 4
- Surround speaker x 2
- Subwoofer x 1

One sentence Highlights

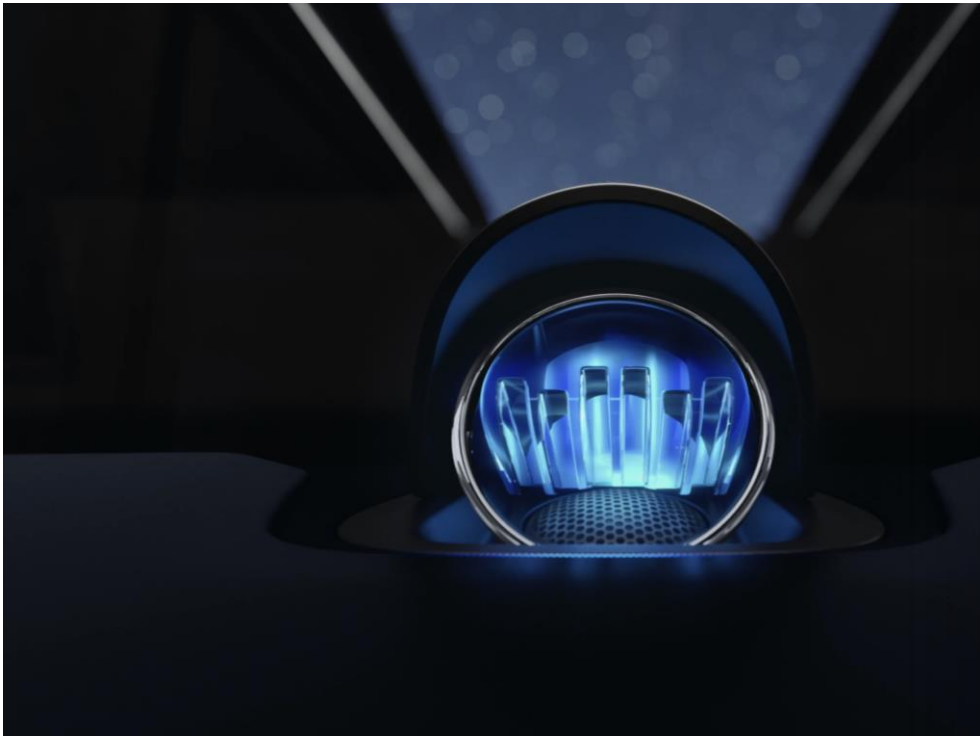
Whether listening to various types of music or watching various movies in the car, the sound system provides customers with a high level of sound presentation

Luxury Cabin

Planetoid Speaker



Planetoid Speaker creates a sense of mystery



- Crafted from K9 crystal through 25 traditional and modern processes, the system features 6 independent light sources.
- Under the interplay of the crystal and point light sources, it transforms into a masterpiece of lighting artistry.
- Utilizing Schroeder acoustic technology, it enhances mid and high frequencies for brighter sound and more even sound dispersion, with a 60% improvement in balance and a 180° sound dispersion angle.

One sentence Highlights

Provides a futuristic feel, enhancing the vehicle's interior with a touch of luxury and sophistication. It also boosts audio performance, delivering a richer and more immersive sound experience.

Luxury Cabin

NVH



Excellent NVH control

- The AITO 5 offers exceptional NVH (Noise, Vibration, and Harshness) control, featuring dual-layer sound-insulating glass, low rolling resistance tires, low wind resistance aerodynamic design, underbody and door sound insulation materials, and engine compartment soundproofing.
- Additionally, the use of LASD liquid damping material on 80% of the floor area and privacy glass further reduces body panel vibrations, creating a quieter and more comfortable cabin for an enhanced driving experience.



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Leading Intelligence

Smart Cabin
Intelligent Driving



Leading Intelligence

15.6" 2K Smart Central Display



15.6 inches

Largest size in its class

Ultra-narrow bezel 90% screen-to-body ratio

Resolution:1920*1080, Refresh Rate: 60FPS

HDR

Light areas are clear and underexposed, dark areas are deep and detailed.

Visual color experience

Intelligent dimming, intelligent eye protection, cinematic color grading

2K Ultra HD screen

Exquisite detail in the graphics, close to the original quality graphics



One sentence Highlights

The large central display seamlessly integrates essential information, providing users with intuitive access to navigation, entertainment, and vehicle settings, while enhancing convenience and delivering a sophisticated, high-tech luxury experience.

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Leading Intelligence

10.25" Smart Instrument Panel



10.25-inch LCD instrument

- Navigation display
- Song display
- On-board information display
- Vehicle control information display
- Vehicle range display



The UI interface is for illustrative purposes only. Please refer to the actual vehicle for accurate details.

One sentence Highlights

The 10.25-inch LCD instrument panel caters to drivers with traditional habits, ensuring safety while presenting comprehensive dashboard information, allowing the driver to easily access and better understand vital vehicle data.

Leading Intelligence

HUD



High resolution

Resolution 480*240, display size is about 6 inches, using a unique distance algorithm to display the projected data in the front position of the car, looks more real and safe

Comprehensive display information

Speed interface (speed, speed limit, ADAS, etc.), navigation interface (navigation distance, direction, etc.), warning messages (battery capacity, lane departure, forward collision warning, etc.)

Personalized adjustment

Adjustable height, brightness and content to suit the height and preferences of drivers of all sizes



One sentence Highlights

HUD technology significantly improves the safety, convenience and comfort of driving by reducing the driver's eye diversion, providing rich information display and combining with intelligent driving technology, and also enhances the technological sense and intelligent interactive experience of the vehicle

Leading Intelligence

In-car Infotainment System



An in-vehicle infotainment system specifically designed for an enhanced experience

Online navigation

Pre-installed online maps and navigation with real-time traffic status information

Four-zone voice interaction

- Voice awake
- Hands free operation
- Continuous speaking
- Support for multiple functions
- Supports local languages

Phone mirroring and app ecosystem for a rich sensory experience

Can mirror phone's content to the screen, using navigation, audio, and video apps from mobile devices. Additionally, the car's system includes a wide range of popular local apps, such as Spotify and YouTube



One sentence Highlights

The system operates smoothly with an aesthetically pleasing UI design, and its functional interface is clear and user-friendly, making it easy to navigate and use

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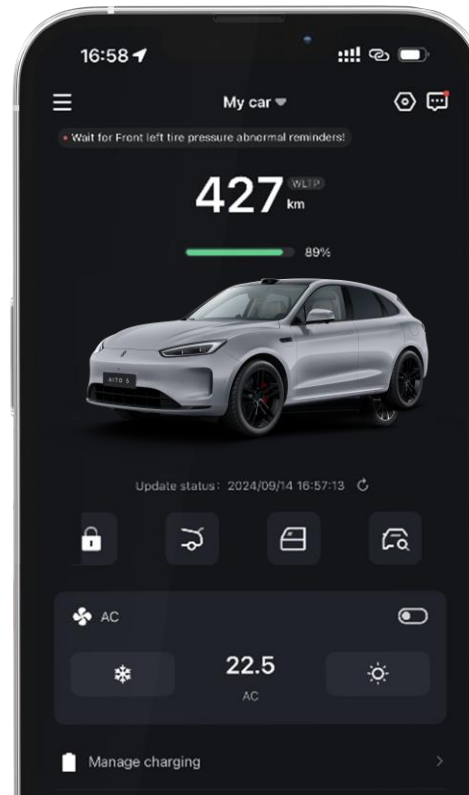
Leading Intelligence

Mobile Phone Remote Control + OTA



AITO Mobile APP: control your car anytime, anywhere

Basic vehicle control	Personal center
Lock/Unlock	Owner's account
Window open/close	Language choice
Sunshade open/close	Vehicle management
Trunk open/close	Digital key management
AC management	Service center
Seat function setting	User manual
Charging status	Notifications
Car finding	OTA updates
Remote Parking Assist	Contact us



Over-the-air updates keep your car always new



latest software
enhance performance
quickly fix issues
security improvement
add new features
anywhere



Remote vehicle OTA updates automatically deliver the latest software and security improvements, enhance performance, add new features, and quickly fix issues, all without needing a service center visit

* The specific APP UI and features are subject to the actual vehicle sold, and some functions may vary by region or be updated via OTA.

One sentence Highlights

The remote-control app for vehicles lets customers control the car from the phone. It offers real-time tracking and status updates for added security and peace of mind, Supports remote OTA updates, keeping the vehicle consistently up-to-date

Leading Intelligence

Intelligent Driving-Hardware



27 perception units

- | | |
|--------------------------|--------------------------|
| 1 LiDAR | 3 Millimeter-wave radars |
| 7 High perception camera | 12 Ultrasonic radars |
| 4 Surround view camera | |

192-laser LiDAR:

The 192-thread laser radar features the industry's highest line density, ultra-high resolution with 1.84 million points, and a full-frame detection field of 120×20 degrees, ensuring complete and clear object recognition. It operates at 20 frames per second for faster cut-in warning and quicker target confirmation

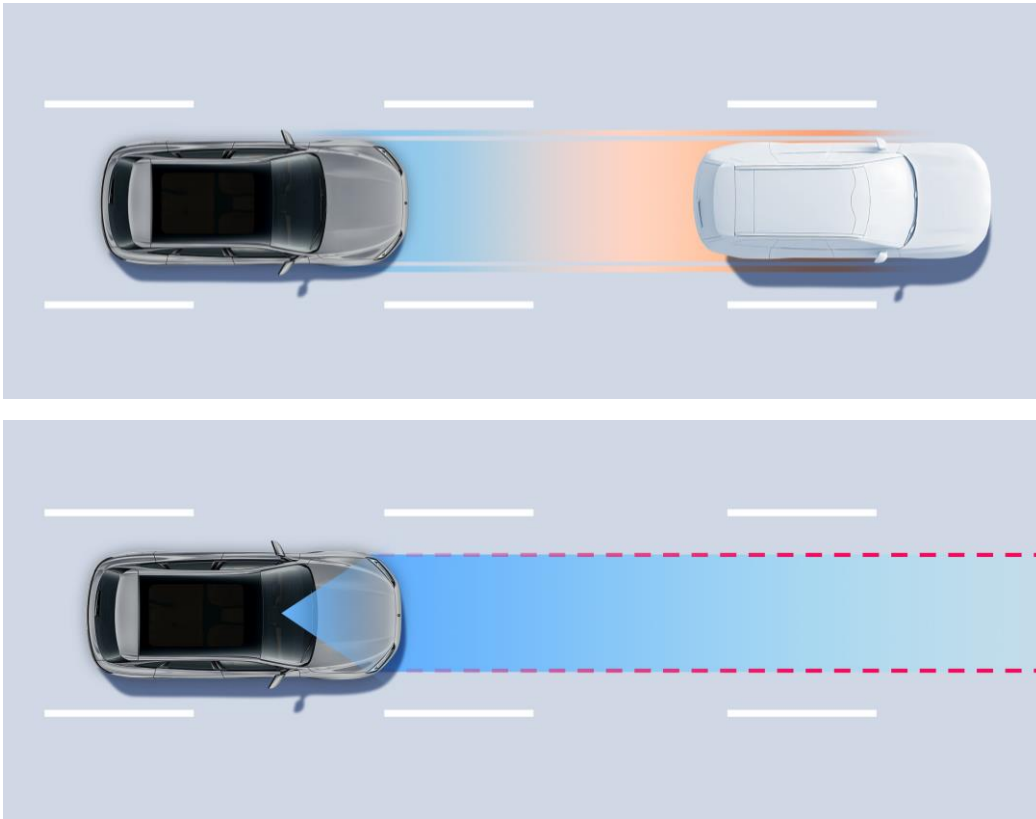


One sentence Highlights

The perception system improves safety by reducing blind spots and enhancing collision warnings, ensuring stable performance in all conditions. It also supports autonomous driving and parking, enabling advanced intelligent features.

Leading Intelligence

ACC & LCC



ACC: Adaptive Cruise Control uses driver assistance sensors to determine the relative distance and speed of the vehicle in front. If there is no vehicle ahead, ACC maintains the set cruise speed. If a vehicle is detected in front, ACC will reduce speed as necessary to maintain the distance to the vehicle in front based on the setting until an appropriate cruise speed is reached.

LCC: LCC works via the driver assistance sensors above the front windshield and midway under the front bumper; it mainly provides longitudinal and lateral assistance to the driver, reducing the driver's workload and providing a safe and comfortable driving environment in monotonous driving situations or in traffic jams.

Off-hand alert: If the driver doesn't take the wheel for more than 10 seconds, a warning appears and the horn sounds for 5 seconds. If still no response, the warning stays on with a light for 5 more seconds. If no action and slight steering, it switches to ACC, showing that LCC is off and asking to take control.

- **Activation speed:** 30-130km/h **working speed:** 0-130km/h

One sentence Highlights

Always keep a safe distance and reduce driver fatigue to a certain extent; Reduces driver workload and always maintains a safe and comfortable driving environment

Leading Intelligence

360° AVM + Transparent Chassis



Panoramic image: By capturing images of the vehicle's surroundings and displaying them on the central display, the parking camera reduces blind spots in the driver's field of vision, making it easier to park into spaces and improving accessibility in scenarios such as narrow streets and alleyways.

- Panoramic image interface:**
- Image display area switching and approaching obstacle warning.
 - Switching between 2D/3D views
 - Settings

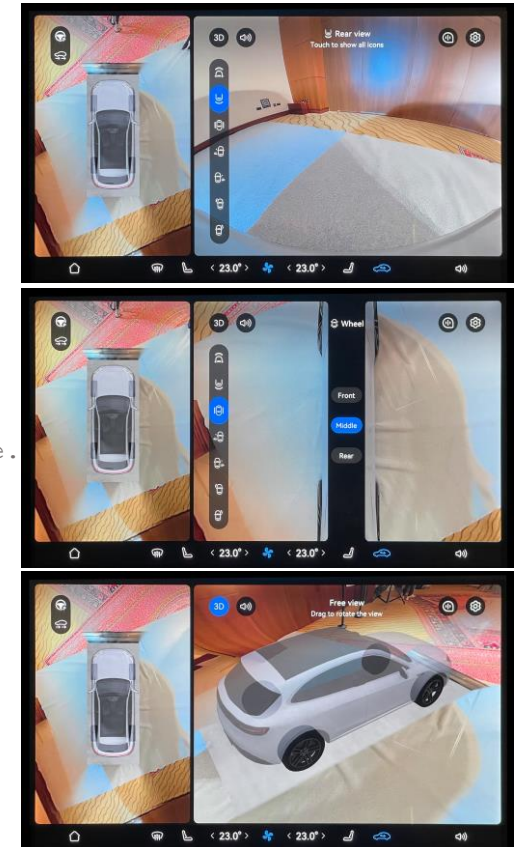
Vehicle track lines:

When the panoramic image system is switched on, the vehicle's lane line is displayed on the center console.

- Displays the front track line when the vehicle is moving forward.
- Displays the rear track line when the vehicle is moving backward.

Limitations of panoramic images:

There are blind spots in the camera's field of view, and the processed display image has a degree of visual distortion that requires attention to relative position. For example, curvature, inconsistent aspect ratio compared to the physical object, distance of obstacles, a degree of shadowing in the 3D view, when surrounding objects are close to the camera, obstacles are partially magnified, and the periphery may be incomplete or out of proportion; this may cause discomfort to the user.



One sentence Highlights

Provides a full, bird's-eye view around the vehicle, enhancing parking and maneuvering by eliminating blind spots and offering a clear, comprehensive image of the surroundings

Leading Intelligence

Automated Parking Assist + Remote Parking



Auto Park “as you want” !

Automated Parking Assist

Supports vertical, parallel, and diagonal parking, as well as parking in spaces with or without lines and custom-defined spaces.



Remote Parking Assist

Allows remote parking via AITO mobile app. After selecting a parking spot, exit the vehicle and use the app to control parking, making it especially convenient for large vehicles in tight spaces.



* The specific software features are subject to the actual vehicle sold, and some may vary by region or be updated via OTA.

One sentence
Highlights

Automated & remote parking assist enhance convenience and safety, particularly in challenging parking situations

Leading Intelligence

Automated Valet Parking (via OTA)



*Automated Valet Parking (via OTA)

Automated Valet Parking

The system allows the vehicle to remember and automatically navigate to a previously used parking spot. Key features include automatic space recognition, easy access to saved locations, and the convenience of retrieving the vehicle from a specific spot without manual intervention.



* The specific software features are subject to the actual vehicle sold, and some may vary by region or be updated via OTA.

One sentence Highlights

Remember customer's preferred parking spots and automatically guide to them. This feature enhances convenience and ensures the user always park in a familiar and accessible location. (tbc.)

All-round Safety

Body Safety

Battery Safety

Intelligent Safety



* The images are for reference only, please refer to the actual vehicle for the final design.

All-round Safety

Structure



The AITO 5 features a steel-aluminum hybrid body structure, with over 60% high-strength steel, 19.5% submarine-grade hot-formed steel, and a cage-style safety body for superior passive safety

- Lightweighting
- Optimized energy absorption
- Cost-effectiveness
- Enhanced handling
- Improved NVH performance



One sentence Highlights

The vehicle is designed with a high standard of safety, featuring reinforced steel plates that ensure a robust and secure body structure, providing users with enhanced protection and peace of mind.

All-round Safety

6 Airbags + Front Dual Pre-tensioned and Force-limiting Seat Belts



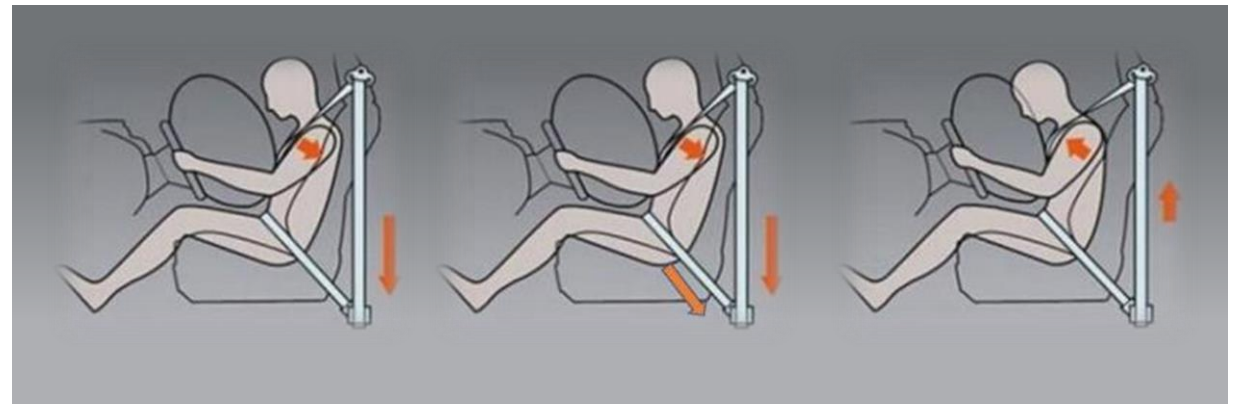
6 airbags

Airbags are typically located in the steering wheel, dashboard, and sides of the vehicle and deploy automatically when sensors detect a collision



Front dual pre-tensioned and force-limiting seat belts

- Pre-tensioned seat belts tighten to secure the occupant, ensuring optimal airbag effectiveness.
- The force-limiting device activates, releasing tension to reduce pressure on the body.
- This prevents excessive chest compression, enhancing overall collision protection.



One sentence Highlights

The airbags deploy swiftly in the event of a collision, cushioning the impact and helping to minimize the risk of serious injury. In addition, the pre-tensioned seat belts secure occupants in place, reducing injury risk while enhancing comfort both during emergencies and in everyday driving.

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All-round Safety

Battery Safety



5-level security management system

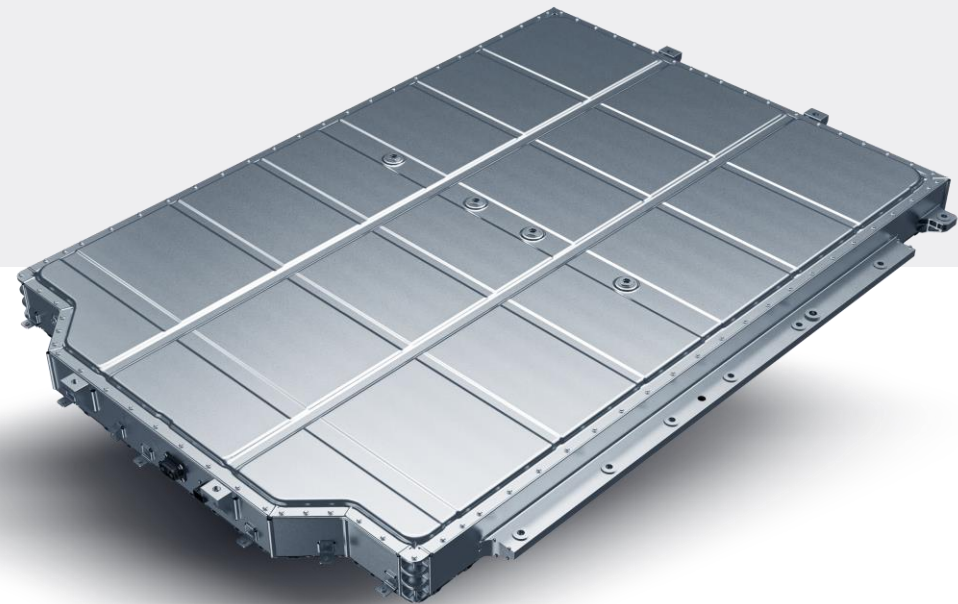
Monitoring, alarming, explosion-proof, insulation, cooling, penetration, fire, punch, immersion

Over 150 stringent battery safety tests

IPX8-waterproof rating

IPX8 waterproofing means that the device can be continuously submerged under water from 1.5 meters to 30 meters deep for up to 30 minutes without damage and is guaranteed to be watertight

Our batteries are co-developed and tested with CATL, having undergone the most stringent safety tests to ensure safe operation under various conditions



One sentence
Highlights

These protections are crucial to prevent damage, malfunction, or hazards such as fires or leaks. Total security, no worries

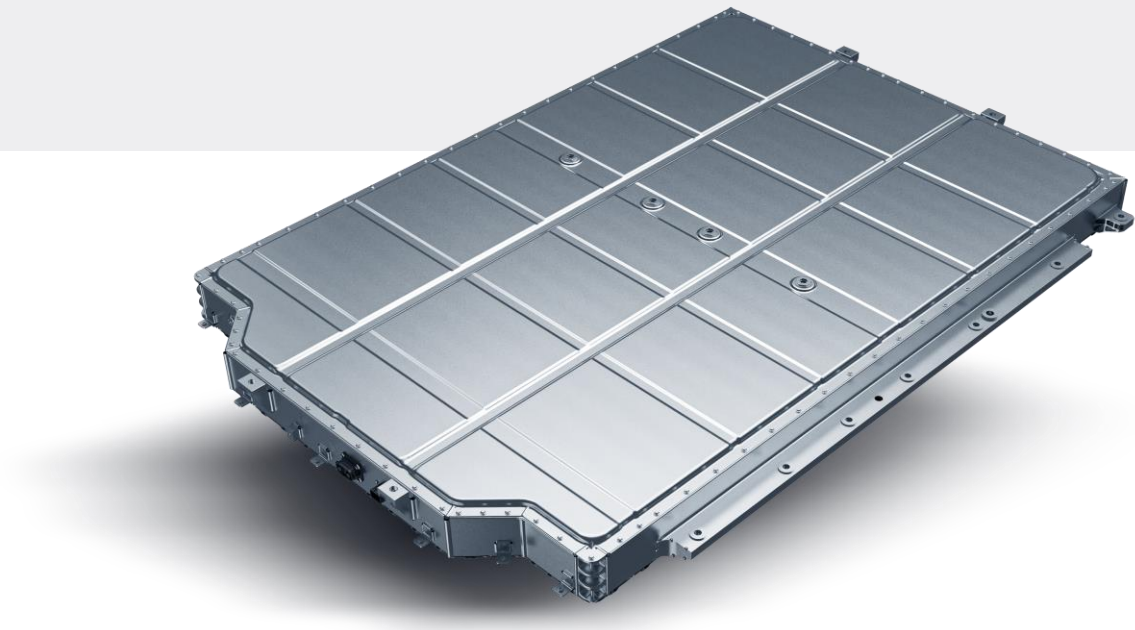
All-round Safety

Battery Safety



Fire-resistant membrane coating, heat-stable materials for positive electrode; insulation and heat-resistant aerogel between cells, with water-cooling plates

- **High and Low Temperature Tests**
- **Overcharge and Overdischarge Tests**
- **Short Circuit and Impact Tests**
- **Drop and Vibration Tests**



One sentence Highlights

Power battery safety protection refers to measures and technologies designed to ensure the safe operation of batteries, especially in electric vehicles and energy storage systems

All-round Safety



BMS

A Battery Management System (BMS) is a critical component used in battery-powered systems, especially in electric vehicles (EVs) and energy storage systems. It refers to measures and technologies designed to ensure the safe operation of batteries, especially in electric vehicles and energy storage systems

Temperature Control

Monitoring and managing battery temperature to prevent overheating or thermal runaway

Overcharge Protection

Preventing the battery from charging beyond its safe limits



Short Circuit Protection

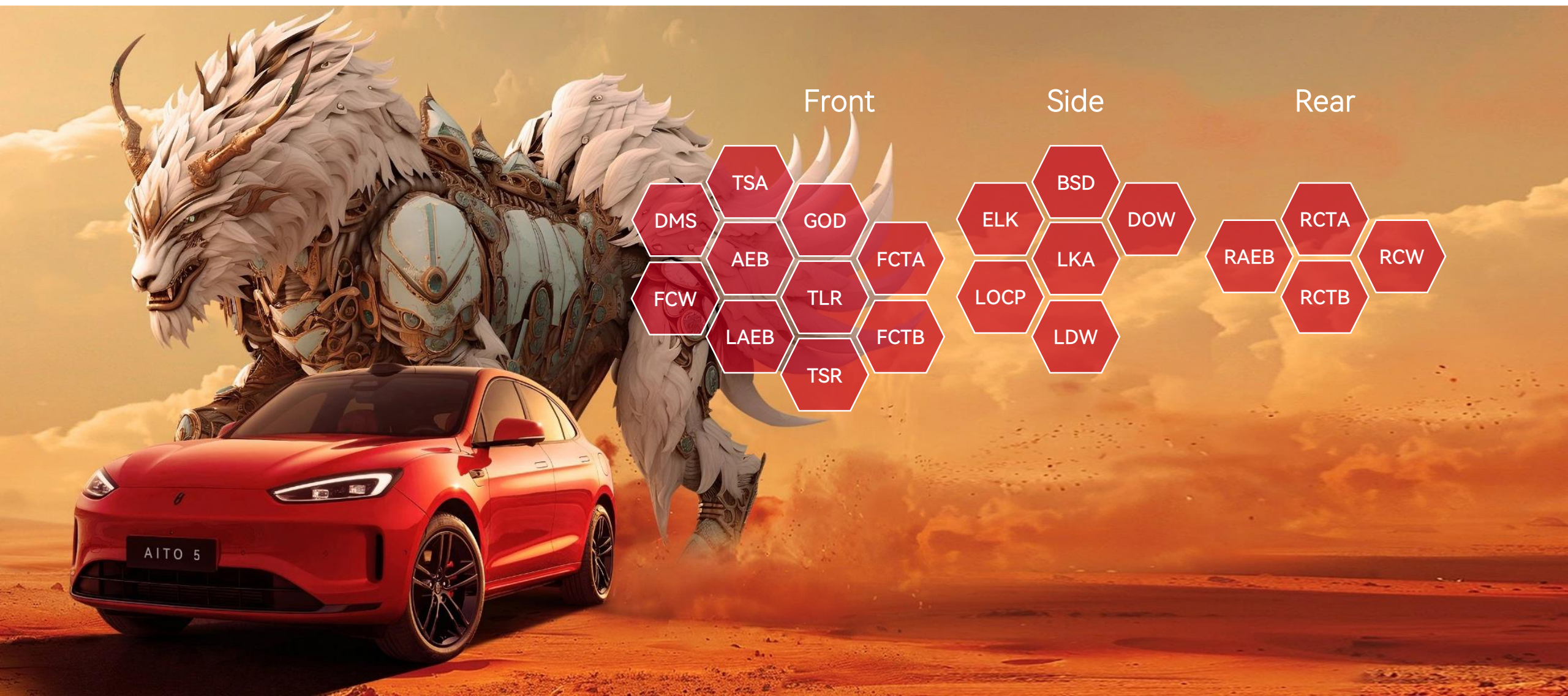
Detecting and isolating short circuits to avoid fires or explosions

Over-discharge Protection

Ensuring the battery doesn't discharge below a critical level that could damage it

All-round Safety

20 Active Safety Functions



Front

Side

Rear



All-round Safety

20 Active Safety Functions

Safety is the ultimate luxury. With over 20 active safety features, customers enjoy comprehensive protection throughout their journey. These systems proactively alert drivers to potential hazards and automatically engage brakes when needed, ensuring a safer and more secure driving experience.

Front Protection

- Driver Monitoring System (DMS)
- Forward Collision Warning (FCW)
- Automatic Emergency Breaking (AEB)
- Low-Speed Automatic Emergency Braking (LAEB)
- GOD Automatic Emergency Braking (GAEB)
- Traffic Speed Alert (TSA)
- Traffic Sign Recognition (TSR)
- Traffic Light Recognition (TLR)
- Front Cross Traffic Alert (FCTA)
- Front Cross Traffic Brake (FCTB)

Lateral Protection

- Blind Spot Detection (BSD)
- Door Open Warning (DOW)
- Lane Departure Warning (LDW)
- Lane Keeping Assist (LKA)
- Emergency Lane Keeping (ELK)
- Lateral Obstacle Collision Prevention (LOCP)

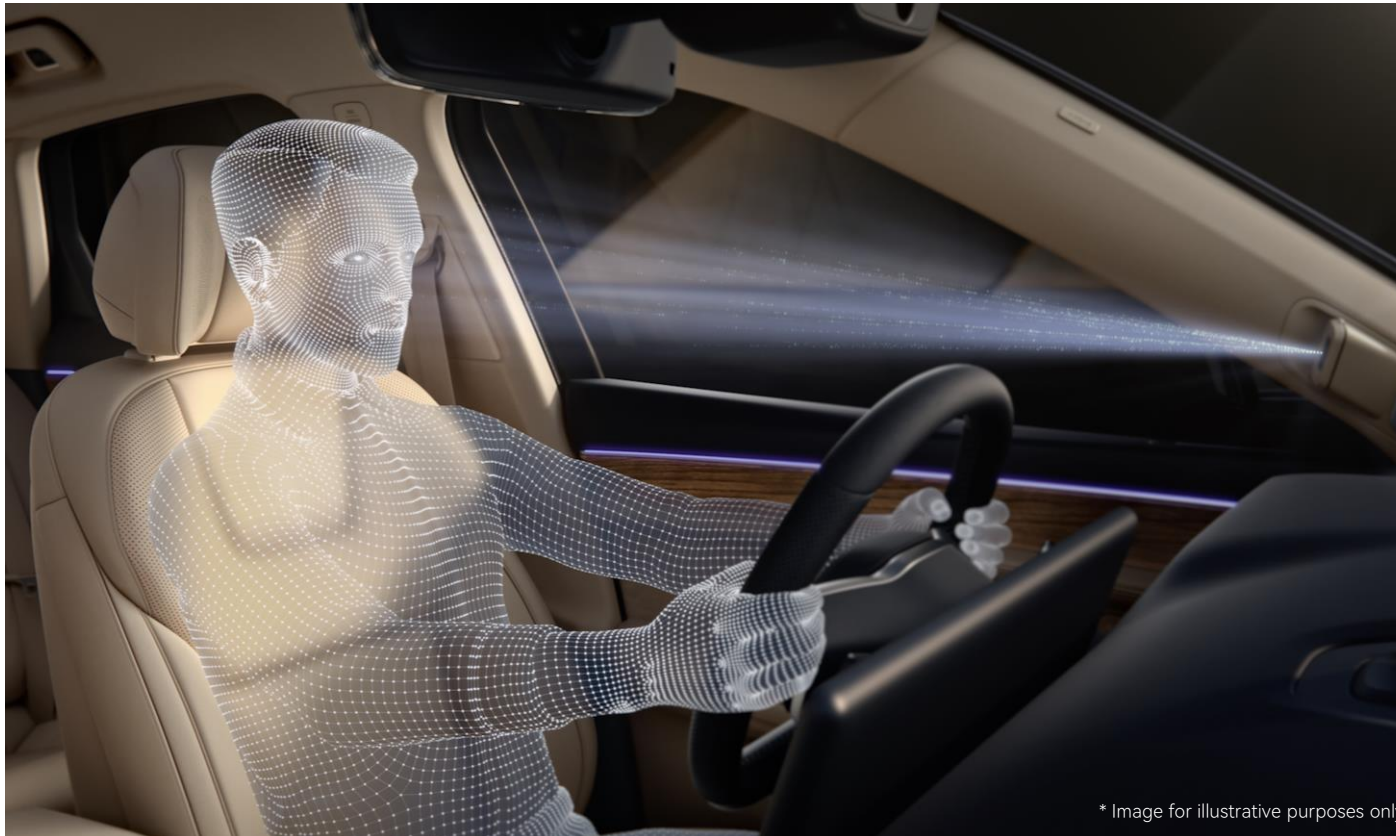
Rear Protection

- Rear Collision Warning (RCW)
- Rear Cross Traffic Alert (RCTA)
- Rear Cross Traffic Brake (RCTB)
- Rear Automatic Emergency Breaking (RAEB)



All-round Safety

Intelligent Safety: Front Protection



DMS: Driver Monitoring System

- **Fatigue detection:** When driving, the fatigue monitoring system integrates data such as the driver's head movements, eye and mouth state, vehicle speed, and duration of driving to assess if the driver is experiencing fatigue, categorizing their fatigue level. Based on this analysis, alerts are communicated to the driver through the instrument cluster, central control screen, and vehicle speakers.
- **Distraction detection:** When driving, the fatigue monitoring system assesses the driver's focus and gaze duration to detect distracted driving behaviors. Using pop-up notifications and audible alarms, the system alerts the driver accordingly.

One sentence
Highlights

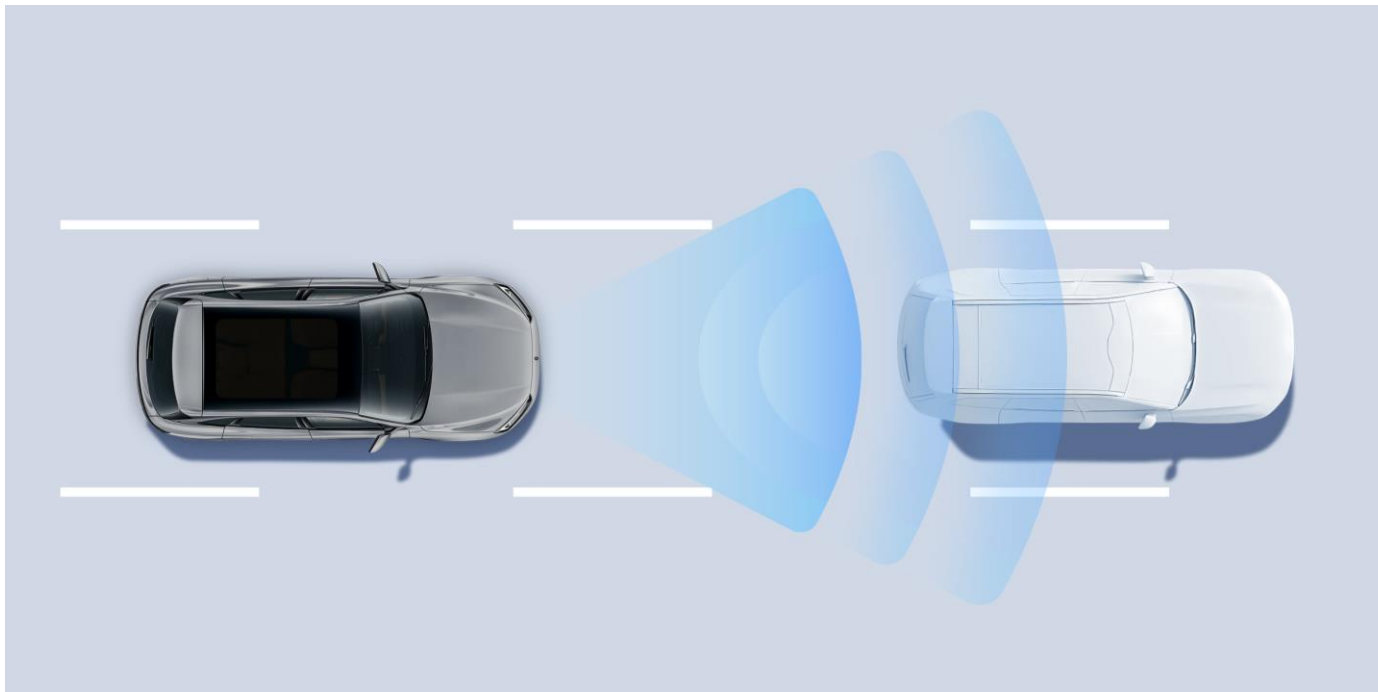
Enhances safety by monitoring and alerting drivers to fatigue and distraction in real-time.

All-round Safety

Intelligent Safety: Front Protection



FCW: Forward Collision Warning system is a safety feature designed to warn the driver of an impending collision with a vehicle or object ahead. Using sensors such as cameras or radar, FCW detects the distance and speed of objects in front of the vehicle. If it senses a potential collision, it alerts the driver with visual or audible warnings, giving them time to react and avoid the crash.



Working conditions:

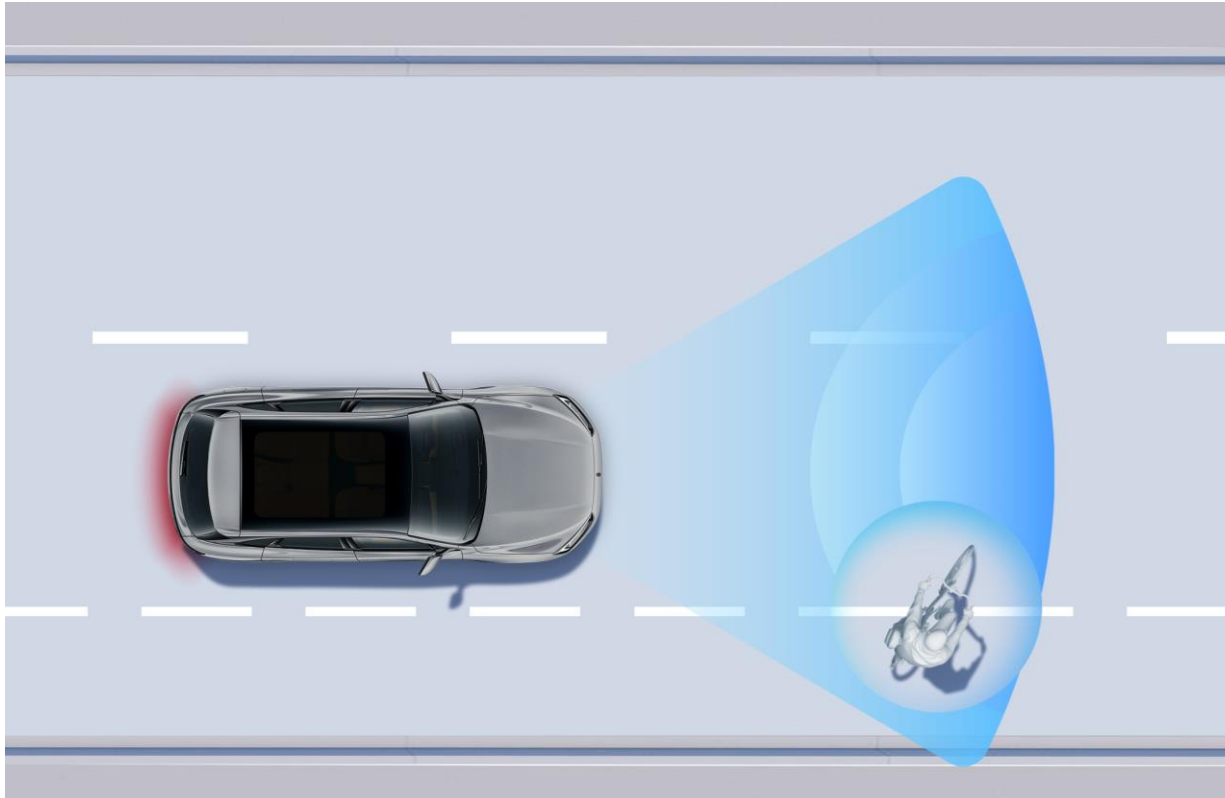
- If the system detects a potential collision risk at speeds of 30 km/h and above, the driver is warned of the potential collision risk with audible and visual warnings.
- The system detects moving vehicles at a speed between 30 and 150km/h.
- The system detects stationary objects at a speed between 30 and 85 km/h.

One sentence Highlights

FCW warns the driver of potential collision risks ahead, helping to prevent accidents and enhance driving safety.

All-round Safety

Intelligent Safety: Front Protection



AEB: At a speed of 4 to 85 km/h, if a hazardous situation arises and the driver fails to apply the brakes, or applies too little, the system will assist the driver to increase the braking force to avoid or mitigate a collision, and a visual warning will appear on the dashboard.

LAEB: The Low-speed Automatic Emergency Braking (LAEB) system detects the environment in front and behind the vehicle when moving at low speeds(10-15km/h) in N gear. If it detects a risk of collision with vehicles, pedestrians, or cyclists, it automatically applies the brakes to reduce speed and alerts the driver to brake via the instrument display.

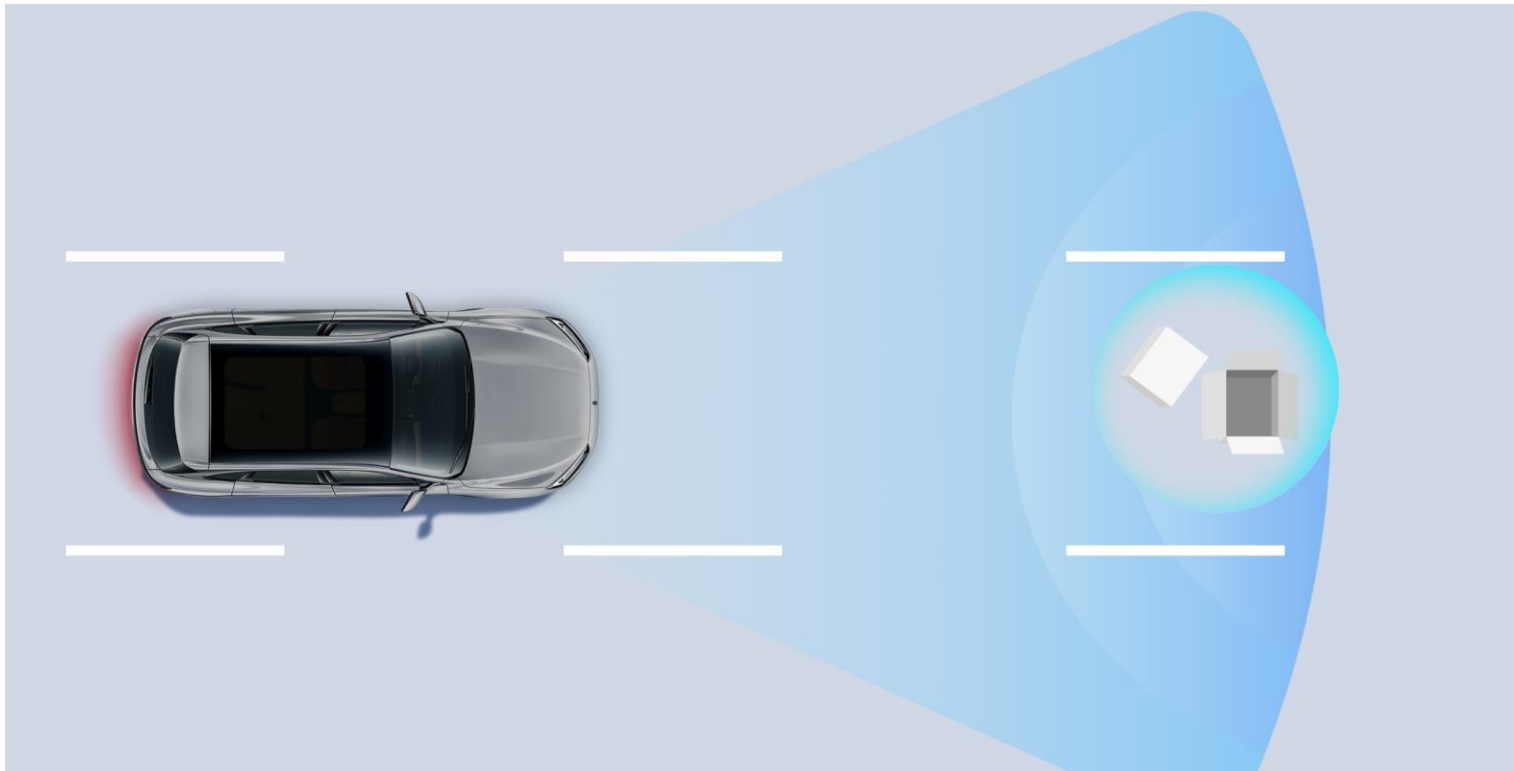
* Speed range is for reference only and may be updated based on overseas testing.

One sentence Highlights

The AEB and LAEB system automatically applies the brakes to prevent or mitigate a collision, enhancing safety and reducing the risk of accidents.

All-round Safety

Intelligent Safety: Front Protection



GOD-AEB:

GAEB, the full name is GOD-AEB General Obstacle Detection Automatic Emergency Braking. Unlike other smart car AEBs, GAEB introduces a GOD (Guided Obstacle Detection) sensing network on top of the traditional functions.

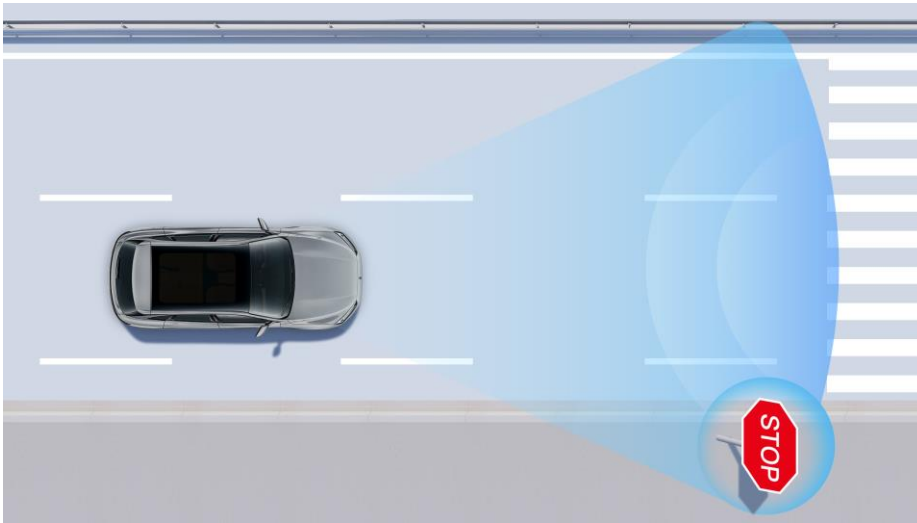
The main function of the GOD network is to plan a 'drivable area' for the vehicle with Occupancy Network, using a visual deep learning model that occupies the grille, as well as forward LiDAR, thus enabling the avoidance of obstacles outside of the traditional AEB whitelist

One sentence
Highlights

The recognition of General Obstacle is far ahead of other brands and effectively reduces the accident rate

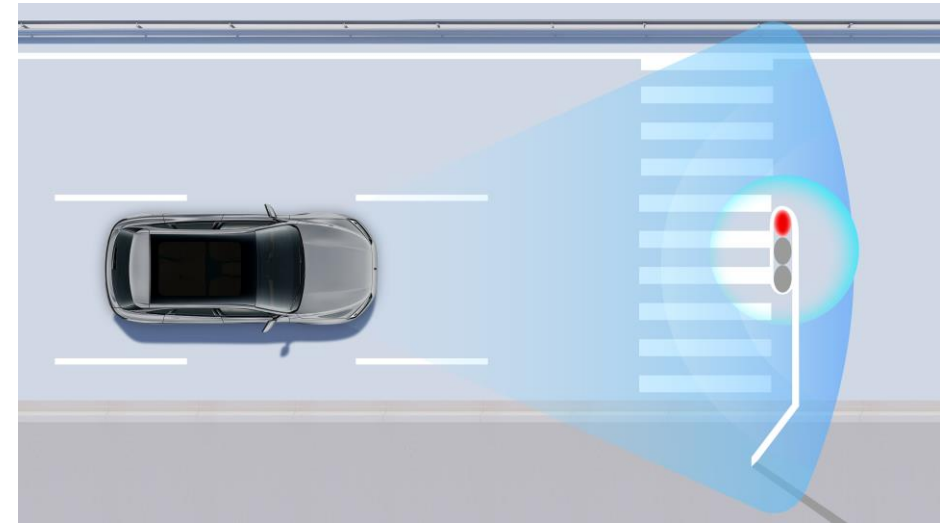
All-round Safety

Intelligent Safety: Front Protection



TSR:

The TSR recognizes and displays traffic sign information in real time to remind drivers to drive sensibly. The Traffic Sign Recognition (TSR) system uses maps and cameras to obtain information about traffic signs on the current road, and the currently recognizable signs include speed limit signs and stop and yield signs. The speed limit sign on the instrument display will disappear after the corresponding cancellation sign is recognized



TLR:

The TLR recognizes and displays traffic light information in real time to remind drivers to drive sensibly. The Traffic Light Recognition (TLR) system uses a camera to sense standard motor vehicle traffic signal information at the intersection ahead and displays the color status of the recognized motor vehicle traffic signal in real time on the instrument display

* The functions may vary by region or be updated via OTA.

One sentence Highlights

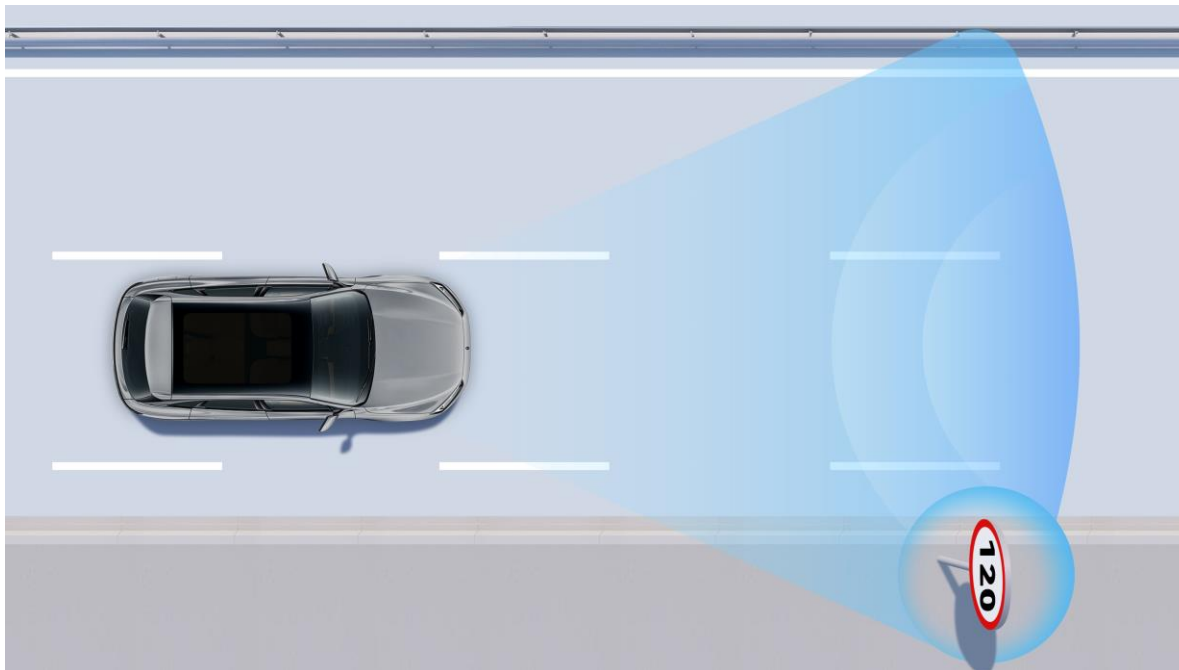
The TSR/TLR function can effectively help drivers to recognize traffic signs on the road when they are not concentrating or in bad weather, allowing drivers to concentrate more on driving itself without neglecting the safety situation on the road, improving driving safety

All-round Safety

Intelligent Safety: Front Protection



TSA: The intelligent Traffic Speed Assistance System (TSA) utilizes the forward camera to real-time recognize road traffic speed limit signs, combined with road speed limit information provided by navigation maps. This achieves Speed Limit Information Display (SLIF) and Speed Limit Warning Function (SLWF). When the vehicle speed exceeds the road speed limit, visual/audio alerts are triggered.



Activation speed: over 5km/h

Reminders:

Visual icon: When TSA triggers display, the dashboard shows the warning icon.

Warning: When vehicle speed exceeds the road speed limit, the instrument panel's speed limit value icon flashes and emits an audible alert.

Speed limit change alert: Upon detecting a change in road speed limit, the instrument panel emits a notification sound.

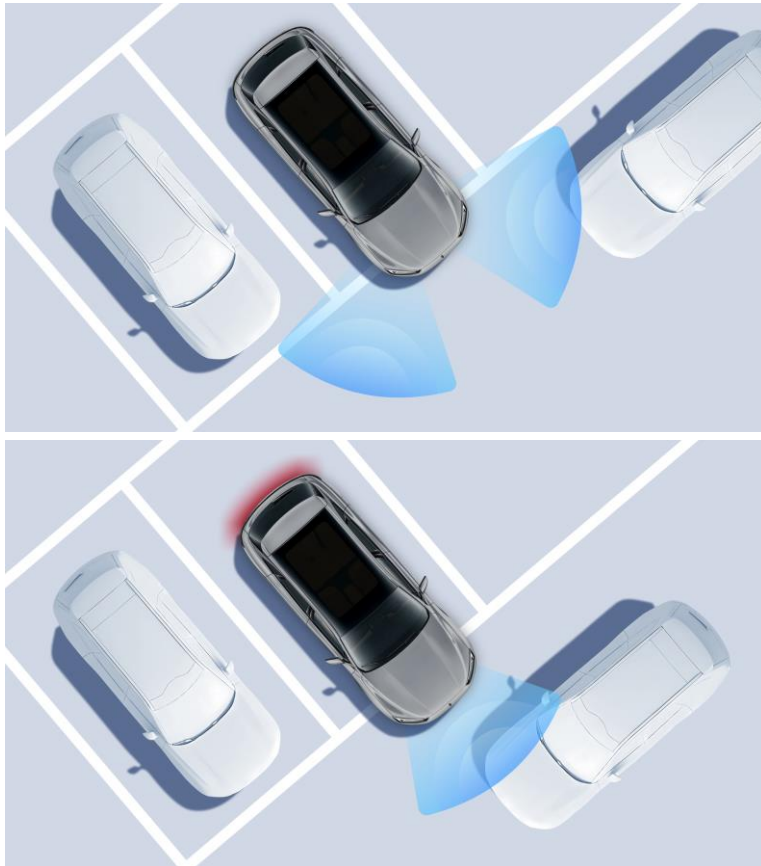
* The function may vary by region or be updated via OTA.

One sentence Highlights

The intelligent traffic speed limit assistance function actively reminds drivers of speed limit information and enhances driving safety.

All-round Safety

Intelligent Safety: Front Protection



FCTA: When the vehicle is moving at low speed, it issues a warning when it detects a potential collision with a vehicle crossing laterally ahead.

- **Activation speed:** 0-30km/h
- **The angle at which the vehicle crosses laterally:** $90^{\circ} \pm 20^{\circ}$

FCTB: When the vehicle is traveling at low speed, it automatically applies brakes when it detects an imminent collision with a vehicle crossing laterally ahead, reducing vehicle speed to minimize the impact of the collision as much as possible.

- **Activation speed:** 0km/h ~ 5km/h, 10 km/h ~ 20km/h
- **The angle at which the vehicle crosses laterally:** $90^{\circ} \pm 20^{\circ}$

Activation conditions:

- **Warning:** When there is a collision risk, the dashboard and central display will show a red or yellow halo (arc) and will have sound alert.
- **Braking:** Automatic braking occurs when the collision risk intensifies further.

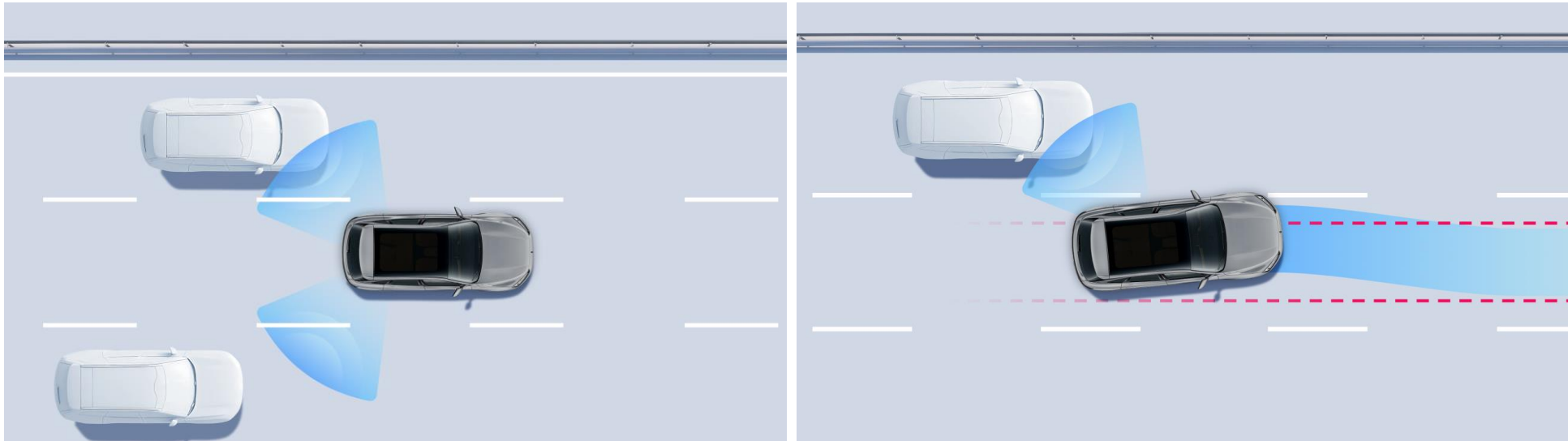
* Speed range is for reference only and may be updated based on overseas testing.

One sentence Highlights

Automatically identify the car crossing in front and make braking, so as not to appear in the field of vision of the vehicle can not be identified in the blind spot, greatly reducing the accident rate when the vulgar move car

All-round Safety

Intelligent Safety: Lateral Protection



BSD: the Blind Spot Detection uses sensors on the left and right rear bumper to monitor the blind spots behind the car, and activates the indicator light on the side mirror to alert the driver. If the driver attempts to change lanes with a vehicle in the blind spot, an alarm is triggered to warn of potential collision risk.

Activation speed: 10-150km/h

Monitoring distance: 70m

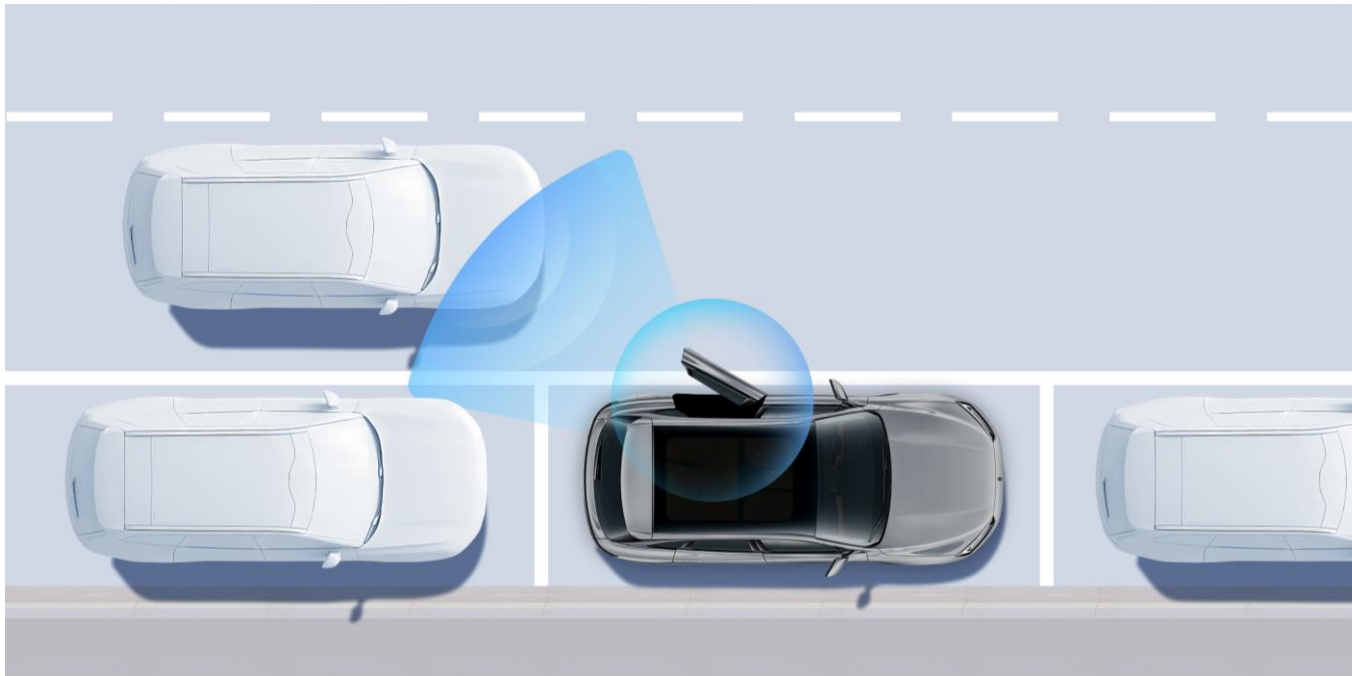
Reminder method: dashboard icons, rear view mirror indicator, audible alarm.

One sentence
Highlights

Reduces merging hazards and improves driving safety by warning oncoming traffic from behind

All-round Safety

Intelligent Safety: Lateral Protection



DOW : The Door Open Warning system uses driver assistance sensors on the left and right of the rear bumper to monitor the rear of the car for safety hazards when the doors are about to be opened at a standstill or at low speed (≤ 5 km/h), and provides an audible and visual warning to the passengers to help prevent potential safety accidents.

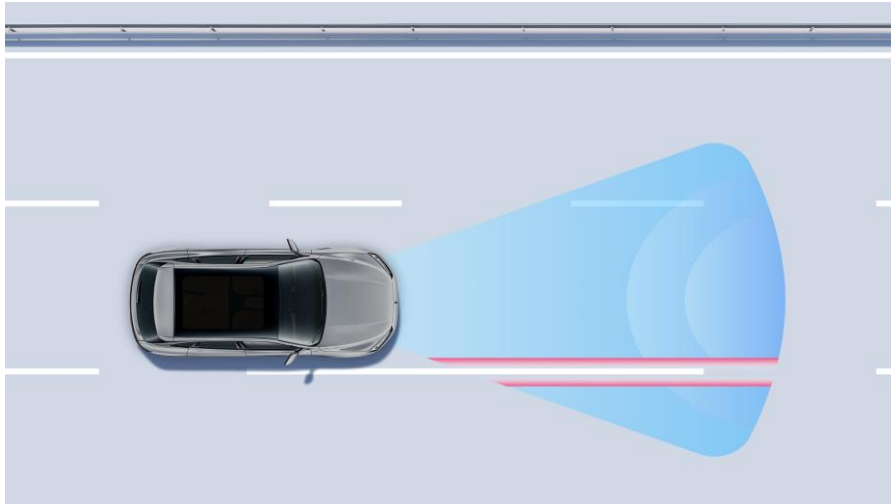
Reminder method: If there is a potential risk and the driver or occupant opens the door on that side, the exterior mirror warning light illuminates, the ambient light flashes red, and an audible alarm sounds to warn of a collision risk.

One sentence Highlights

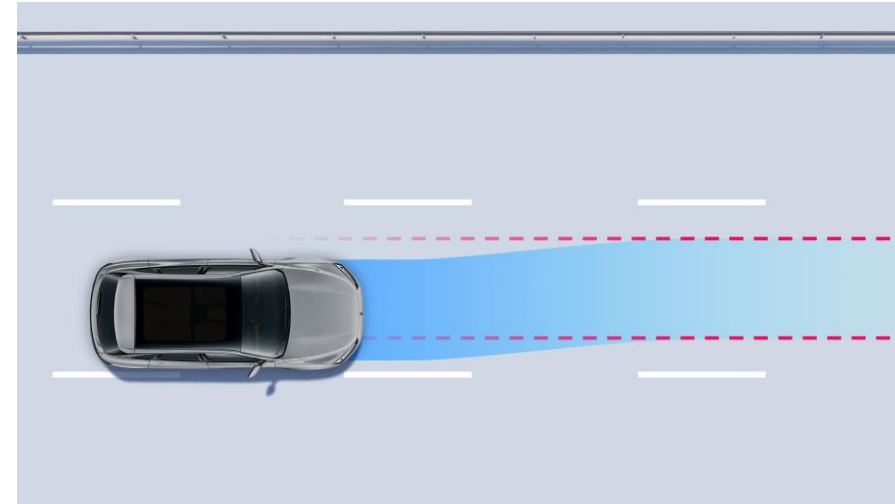
The DOW system alerts the driver of approaching vehicles or cyclists when opening the door, helping to prevent accidents and enhancing passenger safety.

All-round Safety

Intelligent Safety: Lateral Protection



LDW: When driving at speeds 60-150 km/h, and with clear and intact lane markings, Lane Departure Warning monitors the vehicle's position within the lane. If the car begins to unintentionally drift out of its lane without signaling, the system activates a visual warning on the dashboard and sounds an alarm to alert the driver. This helps reduce the risk of lane departure and reminds the driver to regain control.



LKA: Lane Keeping Assist works in conjunction with LDW and provides additional steering assistance. If the vehicle drifts out of its lane at speeds above 60 km/h, and the lane markings are clear, the system will display a visual alert on the dashboard and sound an audible warning. If the driver does not actively steer, LKA automatically provides corrective steering to help keep the vehicle in its lane, further reducing the risk of unintentional lane departure.

One sentence Highlights

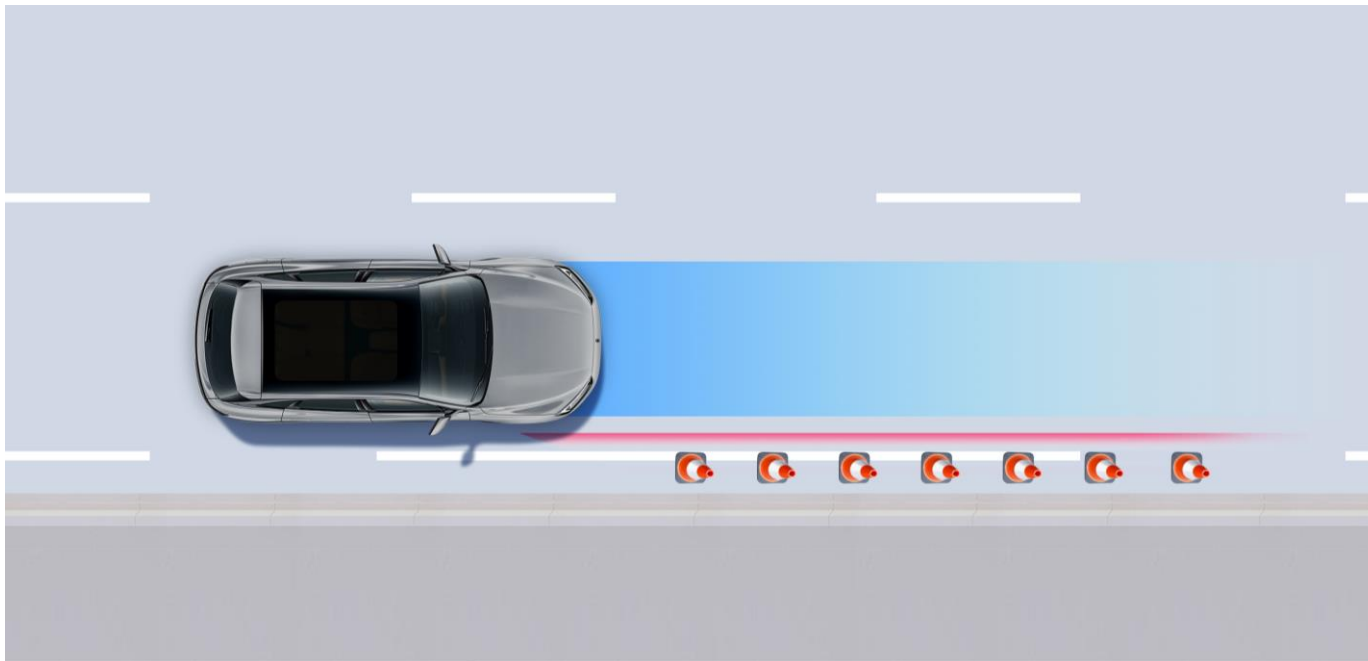
Provide enhanced safety by alerting the driver to lane departures and actively steering the vehicle back into the lane, reducing the risk of accidents caused by driver distraction or fatigue.

All-round Safety

Intelligent Safety: Lateral Protection



LOCP: Lateral Obstacle Collision Prevention emergency assistance to the driver in turning the steering wheel to avoid and mitigate the risk of collision when there is a risk of collision with some obstacles such as roadside traffic cones, barriers, vehicles occupying a small part of its own lane, etc



Activation speed: 30-150km/h

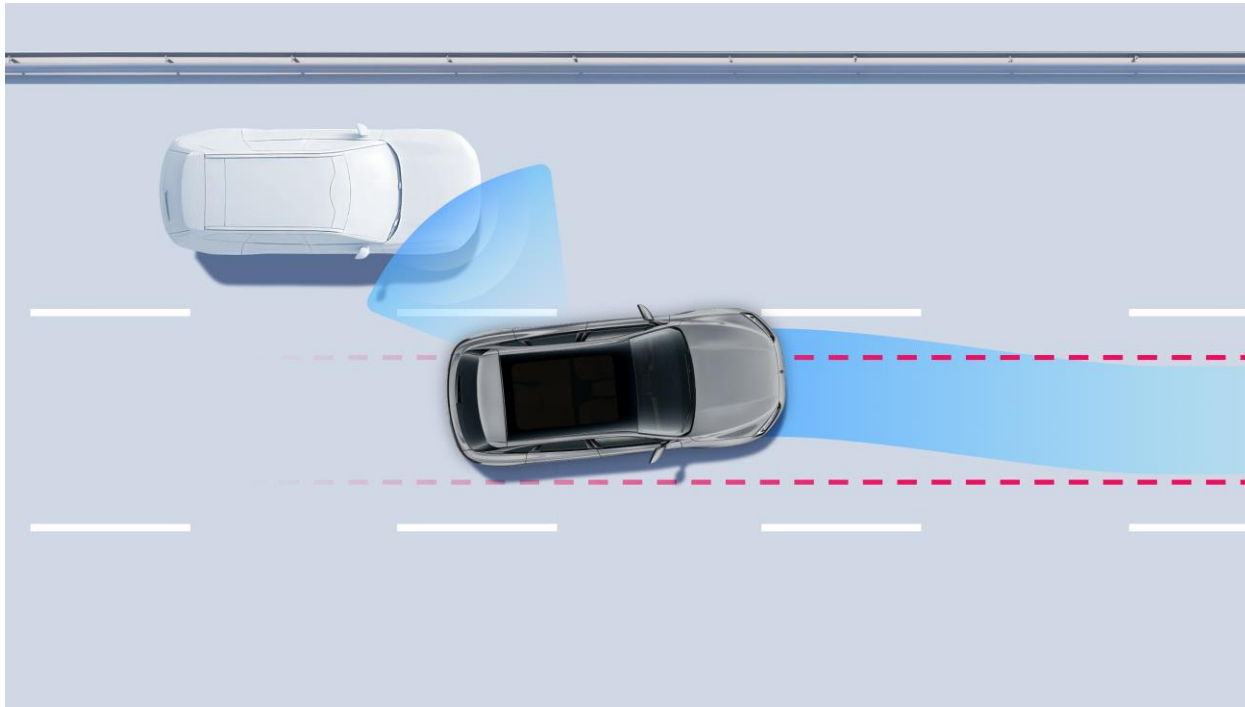
The LOCP system uses a camera and other sensors to identify the surrounding driving environment. When the vehicle is travelling at a speed of approximately 30-150km/h on a non-sharp curved road section, The LOCP system will urgently assist the driver by briefly rotating the steering wheel to help avoid or mitigate the risk of a collision when the risk is present.

One sentence Highlights

LOCP provides AITO 5 with lateral protection in addition to forward and rearward, giving the vehicle a more comprehensive, 360-degree protection

All-round Safety

Intelligent Safety: Lateral Protection



ELK: The Emergency Lane Keeping (ELK) function utilizes the vehicle's surround cameras, front millimeter-wave radar, rear corner millimeter-wave radar, and other sensors to perceive lane markings, road conditions, and approaching vehicles from the front and rear. When the vehicle unintentionally deviates left or right from its lane and there is a risk of collision with vehicles approaching from the front or rear, it provides lateral correction to prevent collisions.

Activation speed: 40-130 km/h

Reminders:

When the ELK function is triggered, the instrument panel will emit visual or audible warnings.

One sentence Highlights

The emergency lane keeping function intervenes much more aggressively when detecting potential collisions when changing lanes, and enhances vehicle safety.

All-round Safety

Intelligent Safety: Rear Protection



RCTA: The system detects the side and rear areas within radar coverage and uses both audio and visual warnings to alert the driver if a vehicle is approaching from the side or rear to avoid a collision.

- **Activation speed:** when reversing
- **Moving target (including pedestrians) speed :** Absolute speed ≥ 1.5 m/s

RCTB: When the vehicle is reversing at low speed, it automatically applies brakes upon detecting an imminent collision with a vehicle crossing laterally from behind, aiming to minimize the severity of the collision as much as possible.

- **Activation speed:** >4 km/h
- **Moving target (including pedestrians) speed :** Absolute speed ≥ 1.5 m/s

Activation conditions:

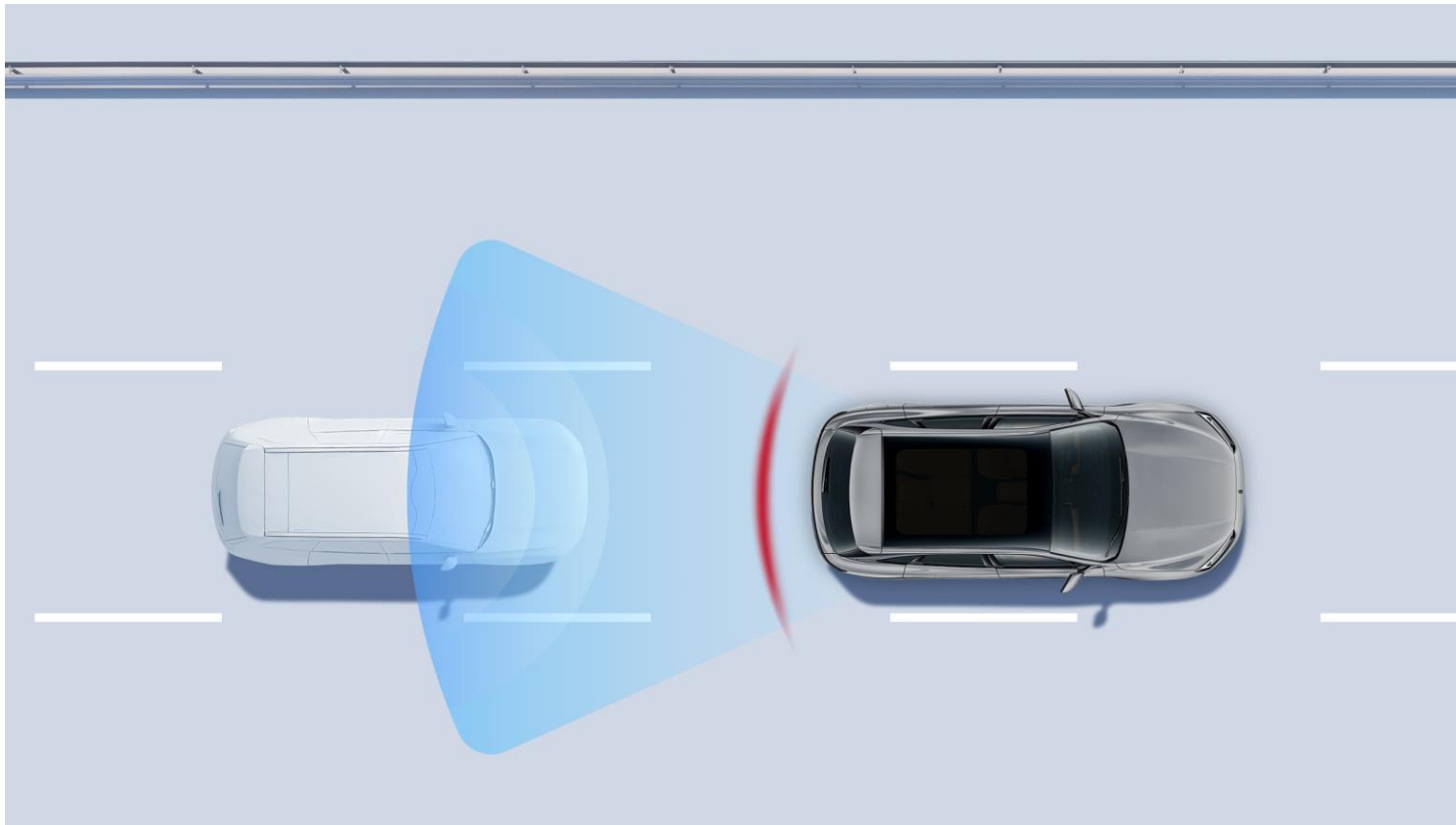
- **Warning:** When there is a collision risk, the dashboard and central display will show a red or yellow signal and will have sound alert.
- **Braking:** Automatic braking occurs when the collision risk intensifies further.

One sentence Highlights

Enhances safety by automatically braking to prevent collisions with vehicles crossing laterally from behind, especially when parking in and out.

All-round Safety

Intelligent Safety: Rear Protection



RCW: Early warning when detecting a potential rear-end collision with a following vehicle while driving forward.

Activation speed:

When the vehicle is traveling at speeds of 150 km/h or less, the Rear Collision Warning (RCW) system continuously monitors the area behind the vehicle using cameras and other sensors, alerting the driver if it detects a potential rear-end collision with the vehicle behind.

Reminders:

When the warning is triggered, a red dynamic highlight signal will appear on the instrument display, accompanied by a warning. The vehicle will also activate the hazard lights to alert the driver behind to the collision risk.

One sentence Highlights

RCW effectively warns of approaching vehicles from behind, and also effectively warns the driver, allowing us to make judgements and operations in advance, increasing driving safety.

All-round Safety

Intelligent Safety: Rear Protection



RAEB: Rear Automatic Emergency Braking automatically applies the brakes when the vehicle detects an imminent collision with a stationary vehicle, or with a stationary or slow-moving pedestrian or cyclist behind it, in order to reduce speed and minimize the severity of the impact.



Activation speed:

- 3km/h ~ 60km/h: with a stationary vehicle behind it
- 1km/h ~ 60km/h: with a stationary or slow-moving pedestrian or cyclist behind it

Reminders:

When the vehicle is reversing, the RAEB system uses cameras and sensors to monitor the area behind the vehicle. If a collision risk is detected, the system automatically applies the brakes to reduce speed and alerts the driver via the center control screen. A dynamic red arc appears on the screen, highlighting the risk target in red, along with a message prompting the driver to apply the brakes.

* Speed range is for reference only and may be updated based on overseas testing.

One sentence Highlights

RAEB enhances rear impact protection by addressing blind spots when the vehicle is reversing. This system helps eliminate the driver's concerns about hidden obstacles, providing greater peace of mind and protecting both the driver, pedestrians, and surrounding vehicles.

Product Message House – AITO 5



AITO 5

Position & Slogan	Smart-tech Mid-size Sport SUV				
	For A Free Spirit, to New Horizons				
USP	Sporty Design	Extraordinary Performance	Luxury Cabin	Leading Intelligence	All-round Safety
	<p>Exterior: Ultimate, Minimalist, Pure</p> <p>Sporty SUV design that blends natural aesthetics with aerodynamics</p> <ul style="list-style-type: none"> Falcon eye LED headlights with a closed front grille, offering a pure, refined, and technological look Adaptive High Beam Assist (HMA) Sporty side air intakes for smooth airflow Streamlined body lines that convey a sense of speed and a stable sporty stance Sporty rear spoiler paired with continuous wing-shaped LED taillights, enhancing the full, sporty profile All-black trims and logo 20-inch sporty wheels <p>Interior: Elegant, Minimalist, Comfort</p> <ul style="list-style-type: none"> Beige & camel interior with Nappa leather steering wheel in matching color Burgundy interior with 	<p>Worry-free Range</p> <ul style="list-style-type: none"> 3.44 kWh/L industry-leading energy conversion rate Range: up to 1210km WLTP Intelligent range extender: with 41% thermal efficiency, adaptive dynamic adjustment, and road condition recognition <p>Ultimate Performance</p> <ul style="list-style-type: none"> AITO MF Platform Dual-motor AWD: 365kW power, 675N·m torque, 0-100 km/h in 4.3s 100% aluminum alloy chassis, unique in its class, luxury feel Front double wishbone and rear multi-link suspension for improved stability and precision 20-inch sport wheels, red calipers, and Pirelli P-Zero high-performance tires with a braking distance as low as 36.8m (RWD) 	<p>Luxury Features</p> <ul style="list-style-type: none"> First-class comfortable seats: 10 comfort layers, 100mm foam thickness 12-way power adjustment for front seats with heating, ventilation and memory functions, front seat massage; extended rear seats 128-color ambient lighting Panoramic sunroof + electric sunshade <p>Sound System</p> <ul style="list-style-type: none"> 19 speakers, 7.1 surround sound, 1000W amplifier Planetoid Speaker with 6 independent crystal lights, inspired by the dome Front and rear dual-layer sound insulation + privacy glass, LASD liquid damping material to reduce body panel vibrations for enhanced tranquility 	<p>Smart Cabin</p> <ul style="list-style-type: none"> 15.6" 2K smart central display + 10.25" smart instrument panel + HUD Online maps and navigation; Four-zone voice interaction: supports local languages; Phone mirroring and ecosystem with radio, music, video, etc. Mobile phone remote control OTA updates <p>Intelligent Driving</p> <ul style="list-style-type: none"> LiDAR: 27 perception units; ACC/LCC; 360° AVM, transparent chassis; Automated parking assist, remote parking, reverse parking; Automated Valet Parking (via OTA); 	<p>Body Safety</p> <ul style="list-style-type: none"> Over 60% high-strength steel, with 19.5% hot-formed steel, and a cage-style safety body for superior passive safety 6 airbags + front dual pre-tensioned and force-limiting seat belts <p>Battery Safety</p> <ul style="list-style-type: none"> 5-level safety management system + over 150 safety tests + IPX8 waterproof rating Fire-resistant membrane coating, heat-stable materials for positive electrode; insulation and heat-resistant aerogel between cells, with water-cooling plates; Advanced BMS with thermal runaway warning and protection

*The configuration marked in orange is awaiting software planning confirmation

THANKS

