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China Smart Door and Electric Tailgate Market Research Report, 2024

Dec. 2024

The market is worth nearly RMB50 billion in 2024, with diverse door opening technologies

Smart door research: The market is worth nearly RMB50 billion in 2024, with diverse door opening technologies

This report analyzes and studies the installation, market size, competitive landscape, suppliers' strategies, OEMs' strategies, development trends, etc. of various smart door products. The research scope mainly covers:

1. The installation, market size, model cases, etc. of smart doors, including electric suction doors, automatic opening doors, frameless doors, hidden electric door handles, double doors without B-pillars, electric sliding doors, etc.;
2. The system structure, highlight functions, supply chain, competitive landscape, installation, market size and supply of electric tailgates, kick-activated tailgates, AR smart tailgates, etc.;
3. Intelligent entry methods: PEPS, mobile APP, digital key, gesture recognition, face recognition, voice control, fingerprint recognition, finger vein recognition, touch recognition, password lock, etc.
4. Lightweight smart door and sealing strip market: lightweight door technology and solutions; door sealing strip market size, production technology, competitive landscape and suppliers;
5. Smart door application by OEMs: smart door solutions of Tesla, ZEEKR, BMW, etc.;
6. Smart door suppliers: smart door products of Brose, Magna, Dongjian, Minth, Yanfeng, etc., and models supported by them.

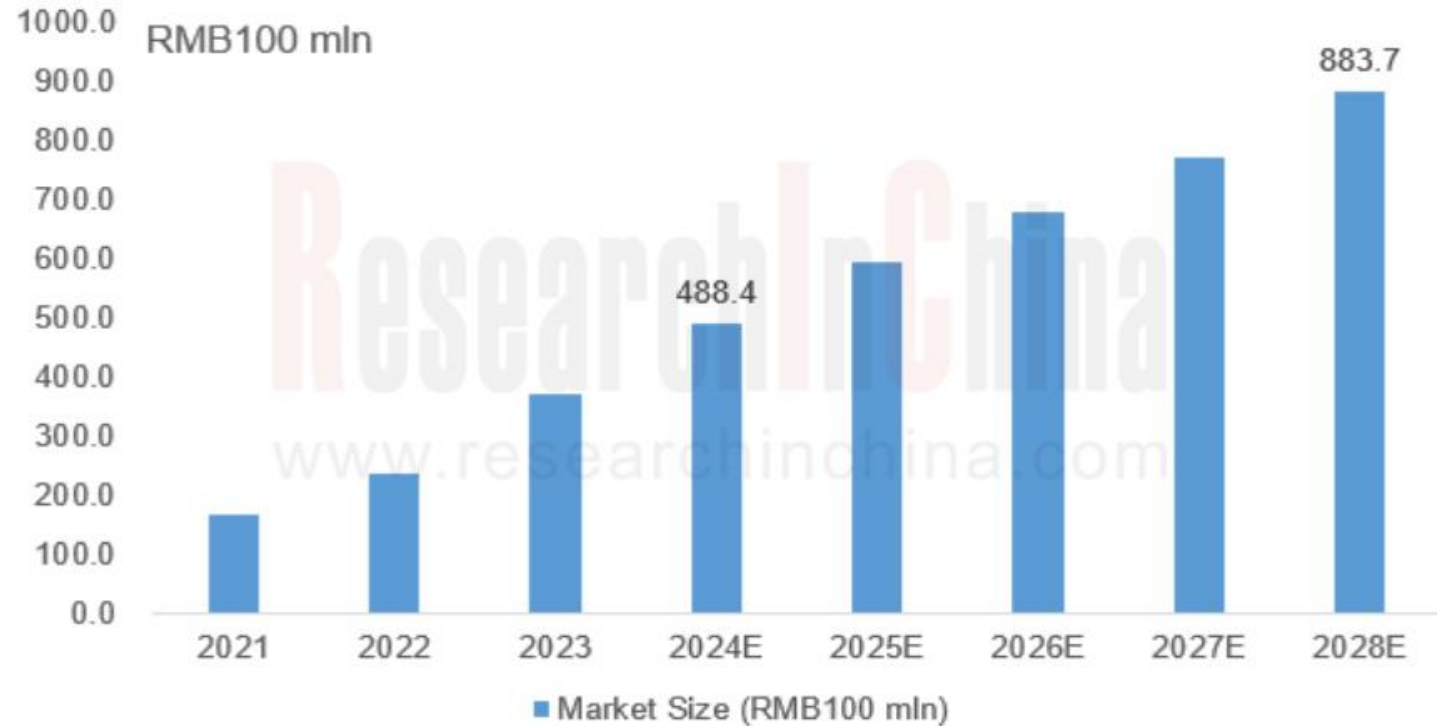
In the process of intelligent evolution, doors are no longer traditional opening and closing components, but constantly add functions such as automatic opening and closing, intelligent anti-collision, and intelligent interaction, and develop towards intelligent components.

China's passenger car smart door market is valued at nearly RMB50 billion in 2024, a year-on-year surge of 31.5%. It is expected to exceed RMB80 billion in 2028, with an average annual growth rate of around 16%.

Size of China's OEM Smart Door Market for Passenger Cars, 2021-2028E

From a functional perspective, doors, as the entrance to vehicle intelligence, carry many functions and interactive experiences, such as intelligent unlocking, automatic opening, obstacle avoidance and anti-pinch, intelligent display, and intelligent interconnection. With the support of optical, acoustic, wireless positioning and other technologies, many new interactive functions have been mass-produced for cars or will be applied. For example, there are intelligent door opening methods such as AR projection, knocking, voice control, and UWB-recognized kicking.

Size of China's OEM Smart Door Market for Passenger Cars, 2021-2028E



Source: ResearchInChina

AR projection: The car owner only needs to step on the projection, and then the door will automatically open.

1. AR projection: The car owner only needs to step on the projection, and then the door will automatically open.

AR smart doors use AR projection to open doors. When the owner arrives near the car with the key, the AR intelligent system will sense it immediately and project the unlocking pattern on the ground through a projection device. The owner only needs to step on the projection, and then the door will automatically open. This method uses projection to indicate the door opening position, which greatly frees your hands.

In November 2024, BYD Xia, which debuted at the Guangzhou International Automobile Exhibition, demonstrated how to open doors by AR projection. When the user approaches the sliding door or tailgate of the locked car, the AR projection will turn on automatically, then the user can "open the door from a distance" by simply stepping on the flashing icon. In addition, ARCFOX Kaola, Besturn E01, Dongfeng Aeolus Huge, and ARCFOX αS (Forest Edition) among others are also equipped with this function.

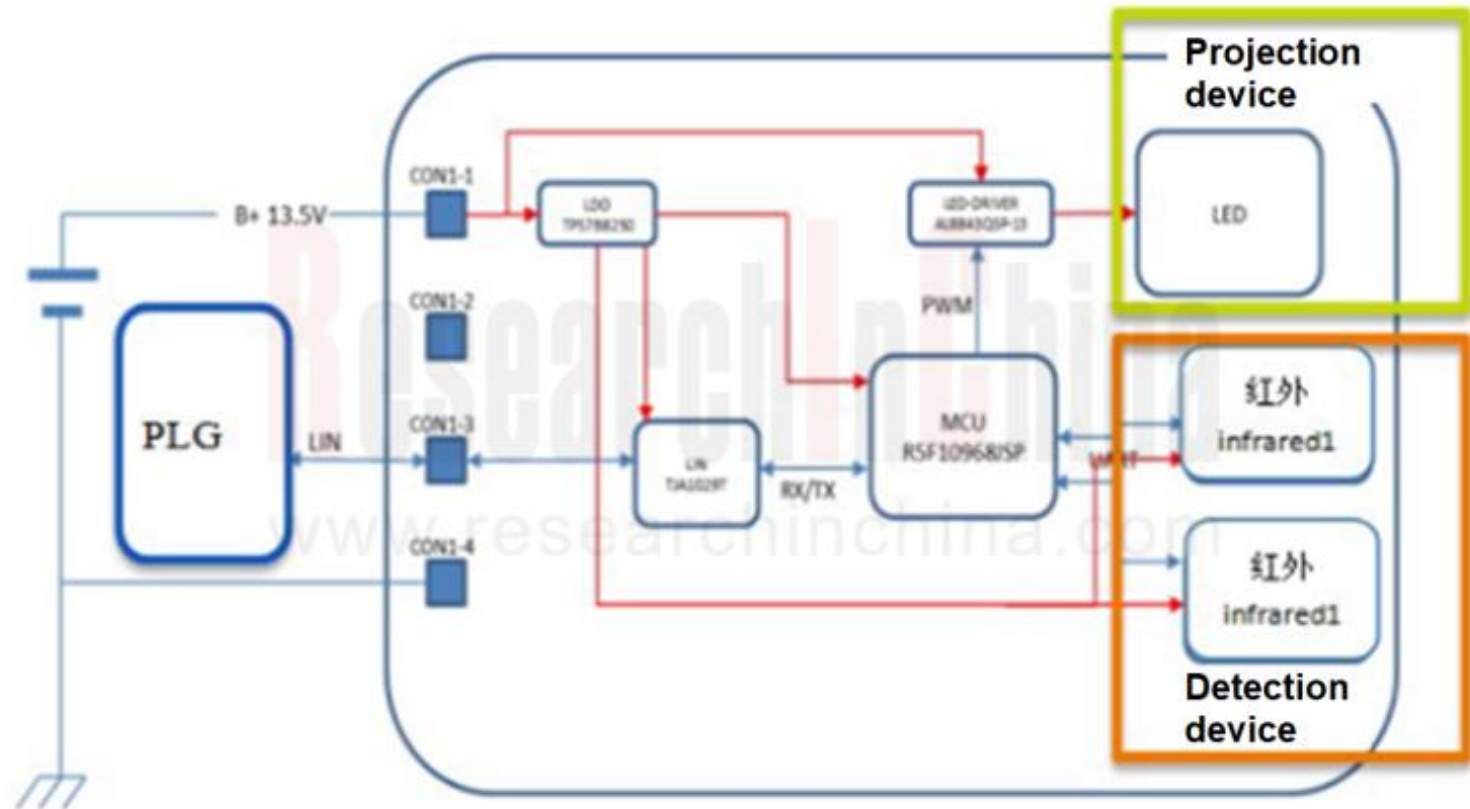
ARCFOX Kaola Sliding Door Opening by AR Projection



Source: ARCFOX

The AR projection door system is composed of projection devices, sensors, and controllers. The projection device projects a corresponding pattern after the user enters the scanning area outside the door with the smart key, and the sensor recognizes the user's stepping movement. At present, sensors mainly include TOF sensors and LiDAR. ASU Tech is a representative supplier of TOF sensor solutions, while Benewake is a main supplier of LiDAR solutions.

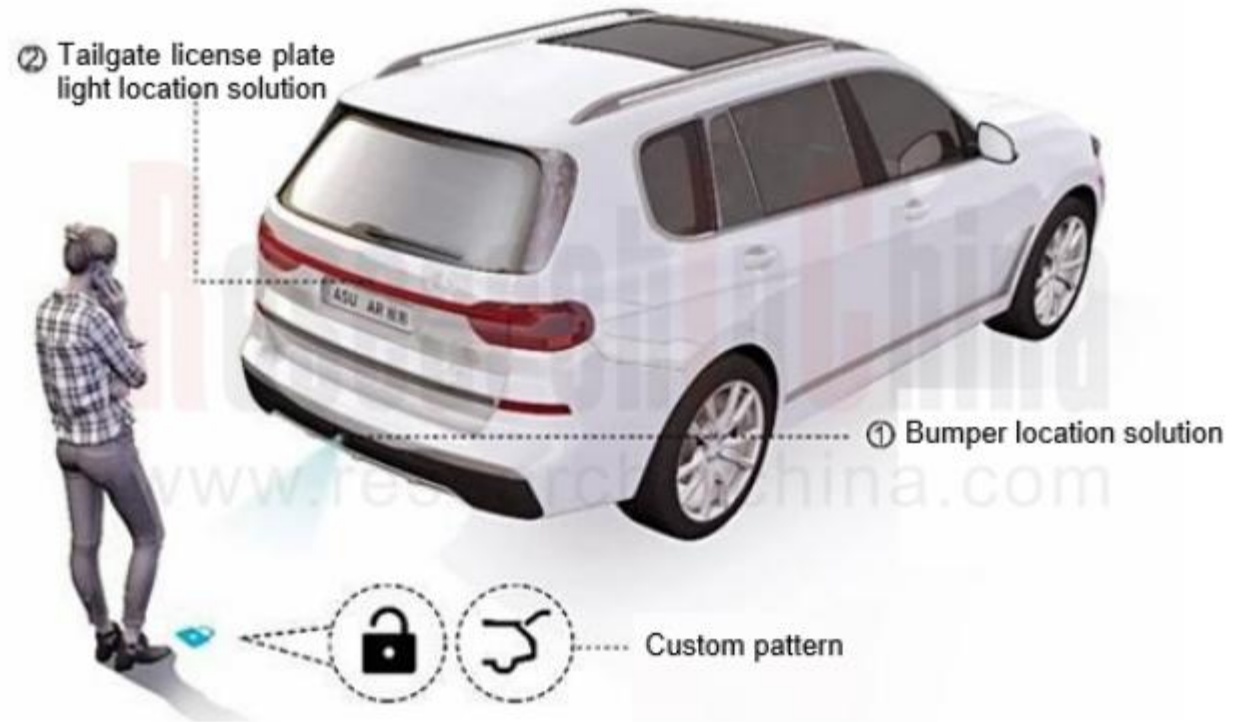
Working Principle of AR Smart Door (TOF Sensor Solution)



Source: ARCFOX

ASU AR Intelligent Projection Tailgate Switch System of ASU Tech

ASU Tech has launched the ASU AR Intelligent Projection Tailgate Switch System. When the owner reaches the rear of the car with the key, the car will automatically sense it and project the corresponding pattern on the ground through MLA optical projection technology. The owner only needs to lightly step on the pattern, then the TOF module will accurately detect it and issue a command to make the tailgate open automatically while ensuring a safe distance with the user. So far, this system has been upgraded to version 2.0, with a total of 3 products and 2 installation positions, and customized services for stepping patterns are available. It is applied in Besturn E01, Dongfeng Aeolus Huge, etc.



Source: ASU Tech

Benewake's light-sensing (laser) kicking solution

Benewake's light-sensing (laser) kicking solution consists of single-point LiDAR, AR projection, and main control panel. This solution uses a single-point LiDAR and an AR projection/visible light indication module and integrates an intelligent sensing device. It can be installed in the trunk. The LiDAR spot overlaps with the AR projection cursor/visible indication light cursor, then the LiDAR judges whether the user steps on the cursor according to characteristic values ??such as distance, and cooperates with the vehicle system to enable AR projection, stepping detection and tailgate opening and closing. The tailgate opens and closes automatically without needing the user to touch the car.

This solution is easier to trigger than the capacitive type, with benefits of a low false trigger rate, visible trigger projection pattern, flexible installation and layout, etc., bringing car owners convenient door opening, night lighting and other experiences.

Benewake's AR Light and Shadow Sensing Tailgate Application Case



Source: Benewake

2. Knock sensing: The user taps the door surface to make the door open automatically

Taifang Tech's KK (Knock-knock) interaction is an innovative function that enables door control by simple knocking. This function uses the latest elastic wave intelligent touch sensing technology to allow the entire door panel to sense touch. The user only needs to tap lightly anywhere on the door surface, then the door will open or close automatically.

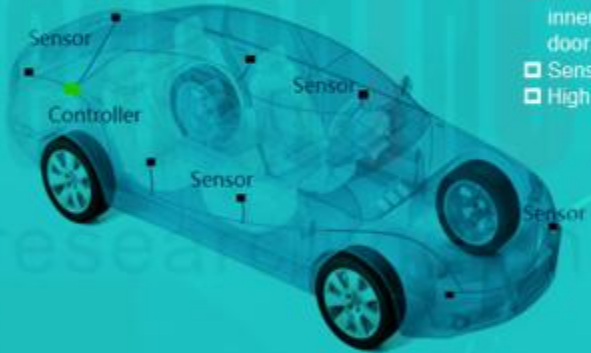
Knocking on the door is user-friendly and intuitive. For the entire door surface can sense touch, users do not need buttons or precise positioning. Any position is available for interaction. When it rains and the surface of the car body is dirty, or when hands are not free, KK interaction offers great convenience to users. In addition, OEMs can choose double clicks or triple clicks to match their own functional needs. All opening and closing parts of the car body, such as doors, tailgate, front trunk lid and charging port cover, can be controlled using this function.

KK Interaction is based on the Taifang Automobile Impact Perception System (TAIPS) developed by Taifang Tech, which can provide multiple human-vehicle interaction methods, including finger pressing, tapping, finger or palm sliding and is expected to spread to the center console, display, steering wheel, buttons, door handles, tailgate, charging port cover, seats, armrest screen, etc. in the future.

TAIPS adopts a "sensor + chip" hardware solution. The device is small in size, simple in structure, and easy to install. It can not only cater to the needs for crushing prevention in collision, parking safety and human-vehicle interaction in new autonomous driving scenarios, but also make up for the blind spots of various existing sensors.

Hardware Composition of Taifang Automobile Impact Perception System (TAIPS)

Hardware Composition of Taifang Automobile Impact Perception System (TAIPS)



The diagram shows a top-down view of a car with a transparent body. A yellow box labeled 'Controller' is located in the front trunk area. Four red squares labeled 'Sensor' are positioned on the inner surfaces of the front and rear doors. Lines connect the labels to their respective locations on the car.

Controller

- ❑ The collision monitoring controller motherboard can support 8-24 sensors.
- ❑ The automotive-grade device motherboard has been certified by automotive-grade testing.
- ❑ CAN/LIN/UART/IO interfaces are easy for the integrated development of customized functions.
- ❑ "Chip + sensor + software" solutions are also available.

Sensor

- ❑ Proved by automotive-grade testing
- ❑ Wide coverage: Only one piece is needed on the inner surface of the door panel to cover the entire door.
- ❑ Sensor module: 25*25*6mm
- ❑ High reliability. Temperature range: -40℃-85℃

Source: Taifang Tech

3. Voice control: The body panel sound and vibration perception system opens the door

Out-of-car voice allows intelligent interaction between people and cars to move from the inside to the outside of the cars. Since 2023, OEMs like Jiyue, ZEEKR and Changan Nevo have installed out-of-car voice functions in cars, for example, voicing to play music outside the cars, opening and closing the doors, and starting the car.

In terms of door opening and closing, both Jiyue 01 and Jiyue 07 enable out-of-car voice recognition to open the doors. Jiyue 07, launched in September 2024, is equipped with Baidu's latest AI foundation model and SIMO (intelligent voice assistant). When the owner stands outside the car and says "open the door", the door will open automatically.

In April 2024, PATEO CONNECT+ unveiled the world's first solid-state sound field intelligent system that uses body panels to generate sound and integrates body panel vibration perception. This system allows users to talk to the vehicle by simply tapping on the door. For example, tapping a body panel can directly activate voice recognition to open the trunk or door.

The key component of this system is PATEO CONNECT+'s high-power piezoelectric vibrator sound generator that supports sound generation from body panels. The device is ultra-light, ultra-thin, waterproof, dustproof, corrosion-resistant, and resistant to high/low temperatures, and features a wide sound frequency band and a long service life, making it suitable for out-of-car sound generation.

The automotive all-scenario intelligent interactive system that integrates sound vibrators and control units has multi-modal interaction capabilities such as multi-directional sound generation and perception outside the car. The system supports more than 50 new scenario applications, covering leisure and entertainment, reminder services, safe vehicle control, vehicle communication, advertising sales, new business models, etc., and including vehicle collision warning, local rescue, megaphones inside and outside the car, out-of-car sound waves, out-of-car karaoke, out-of-car speeches, keyless entry, and smart marketing.

Body Panel Sound and Vibration Perception System of PATEO CONNECT+



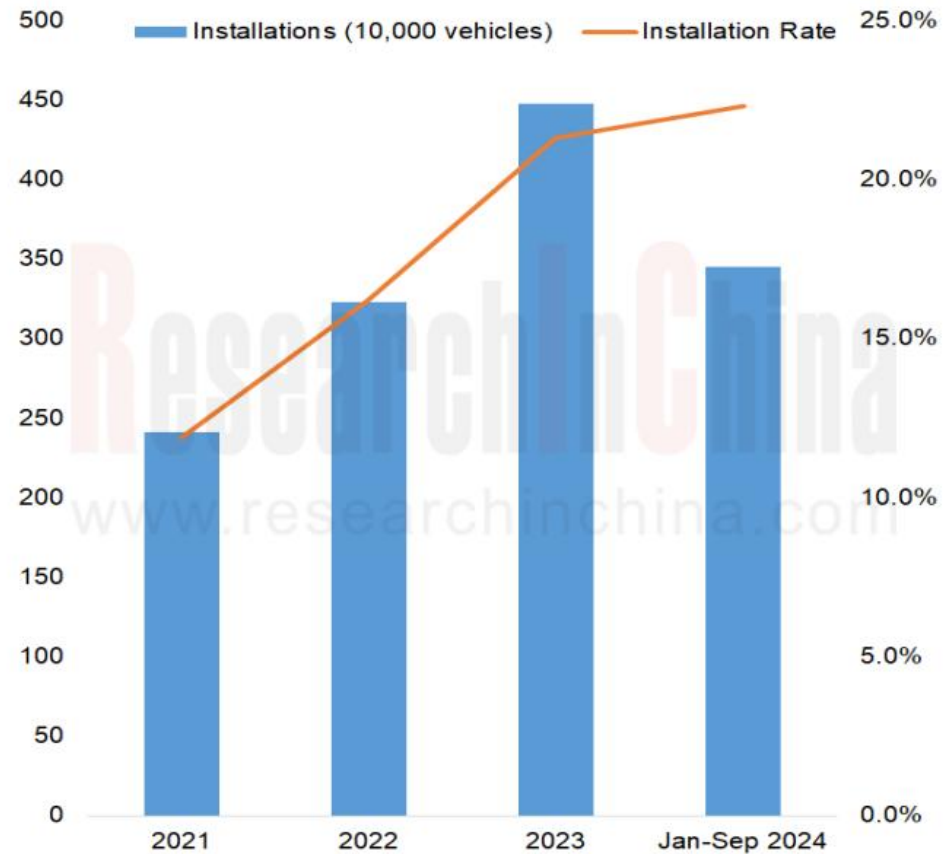
Source: PATEO CONNECT+

Kick sensing: Capacitive solutions are widely used, and UWB solutions are just emerging.

4. Kick sensing: Capacitive solutions are widely used, and UWB solutions are just emerging.

The inductive tailgate is commonly known as "one-kick". As the name suggests, the trunk is opened by sweeping the sensor under the car with your foot. With the rapid development of vehicle intelligence, kick-activated tailgates have gradually become a standard feature of mid-to-high-end models thanks to their unique ease of use and intelligence. In recent years, the installation rate of sensor-based tailgate opening functions has been on the rise, increasing from 11.9% in 2021 to 22.3% in September 2024.

Installations and Installation Rate of Sensor-based Tailgate Opening Functions in Passenger Cars in China, 2021-2024



Source: ResearchInChina

Different Implementation Methods of Kick Sensors

The key component of the inductive tailgate is the kick sensor, which is usually installed inside the rear bumper of the vehicle. There are diverse solutions for kick sensors, including infrared, capacitive, ultrasonic, radar, and UWB radar solutions.

Kick sensor category	Advantages	Disadvantages
Infrared sensor	Small size, light weight, low power consumption and low cost	The detection is not sensitive when the temperature is high in summer and is easily disturbed by animals.
Ultrasonic sensor	High frequency, short wavelength, small diffraction and good directivity	Sensitivity will be affected when covered or blocked by sludge and rainwater
Capacitive sensor	Low cost, easy and quick installation, sensitive sensing, low probability of misjudgment, etc.	Affected by foreign objects, especially in winter when the temperature is low, the detection is not sensitive
Radar sensor	All-weather, wide field of view, small size, high precision, easy to install	High software algorithm requirements
UWB sensor	High stability, moderate cost, low power consumption	Higher cost (more expensive than the capacitive solution, cheaper than the radar solution)

Source: ResearchInChina

Among them, the infrared solution is being phased out, and the capacitive solution is currently the most popular solution in the market. The UWB solution, characterized by high stability (compared to the capacitive solution), moderate cost (more expensive than the capacitive solution, and cheaper than the radar solution) and low power consumption (lower than the radar solution), is gradually emerging.

In November 2024, Linked Intelligent Technology published its patented kick sensor which aims to simplify the installation method of the (capacitive) leg sweep sensing device and improve the sensitivity and reliability during its detection process. Linked Intelligent Technology is a supplier of capacitive kick sensors. The controller housing of its second-generation capacitive kick sensor uses laser welding technology and a dedicated capacitance detection chip to support action recognition such as leg sweeps and oblique kicks. And it can effectively avoid the probability of false triggering such as water splashing, pets and pedestrians passing by. At present, Linked Intelligent Technology's second-generation capacitive kick sensor has been mass-produced for 8 models, and the first-generation capacitive kick sensor has been spawned for 10 models.

2nd-generation Kick Sensor of Linked Intelligent Technology



Source: Linked Intelligent Technology

UWB Radar Kick Solution of YF Tech

In 2024, YF Tech launched a UWB radar kick solution, an expansion of its UWB digital key. YF Tech's UWB radar kick solution reuses the UWB module of the digital key system to recognize kicking movements through algorithms without any additional hardware. According to the test data from the company's CNAS laboratory, this solution can accurately and quickly recognize the user's kicking movements (forward kicks and sweeps), with a success rate of higher than 99.9% and a response time of less than 300ms; also it can completely avoid possible interference caused by water droplets splashing, pets and pedestrians passing by, etc. in the sensing area, with nearly 0% false touch rate by kicking.



Source: YF Tech

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