

LEGATE

SMART AIRPORT SOLUTION



Suzhou LEGATE Intelligent Equipment Corp., Ltd.

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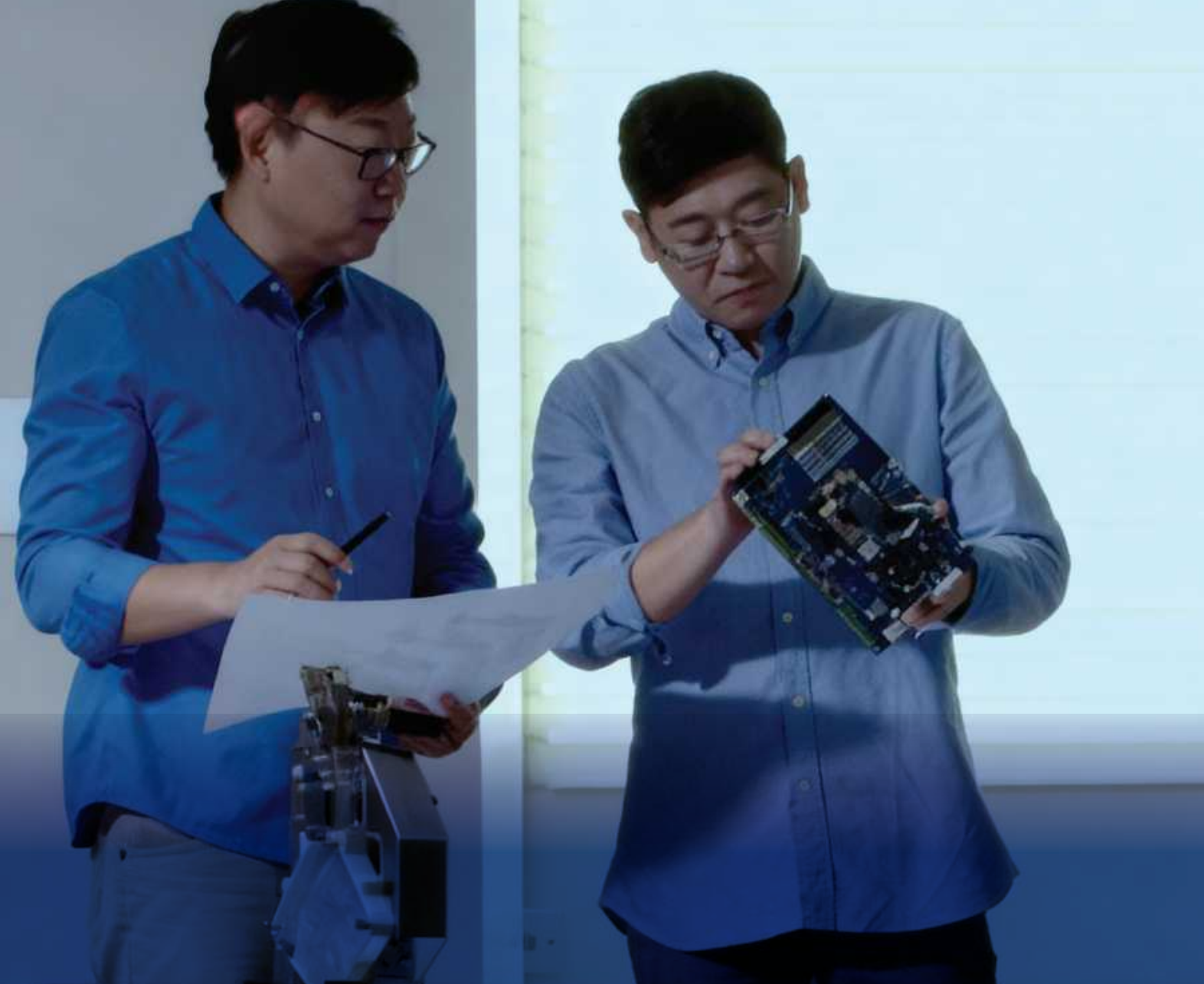
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Suzhou LEGATE Intelligent Equipment Corp., Ltd.



Enterprise Certification and Personnel Qualification:

ISO9001, ISO14001, ISO45001
Skill qualification ratio: 44%
PMP certificate ratio: 5.6%
Six Sigma certification



103 intellectual property:

Invention patents: 11
Utility model patents: 46
Software copyright: 25
Appearance patents: 21



Participate in the formulation of national and industry standards:

GB/T 50381-2018
T/CAMET04020.1~2021
T/CIITA 204-2020
T-CIITA 210-2020

LEGATE Positioning



LEGATE has long specialized in the **Pedestrian Access Sector**, adopting a market-driven approach to focus on precise and efficient pedestrian recognition and control. By integrating algorithmic and electromechanical technologies, we deliver systematic solutions.

Our self-developed products are widely applied in rail transit, airports, entertainment venues, and high-end buildings, complemented by smart maintenance services. We have successfully provided high-quality products and customized services to nearly 100 clients in 37 cities worldwide.

LEGATE

Founded in February 2010 and located in Suzhou City, Jiangsu Province, LEGATE is an enterprise with 36,000 square meters of manufacturing base and more than 200 employees, including more than 50 technical engineers

Corporate mission



OUR VISION

Bring security and civilization to the world with order and convenience.



OUR MISSION

Provide customers with high-quality products and services, and users with a safe and convenient experience through innovative design and intelligent manufacturing



OUR VALUES

1. Provide customers with high-quality products and services that exceed expectations
2. Provide employees with attractive material and spiritual wealth
3. Create sustainable and stable profit returns for shareholders
4. Provide employment opportunities and tax contributions to society



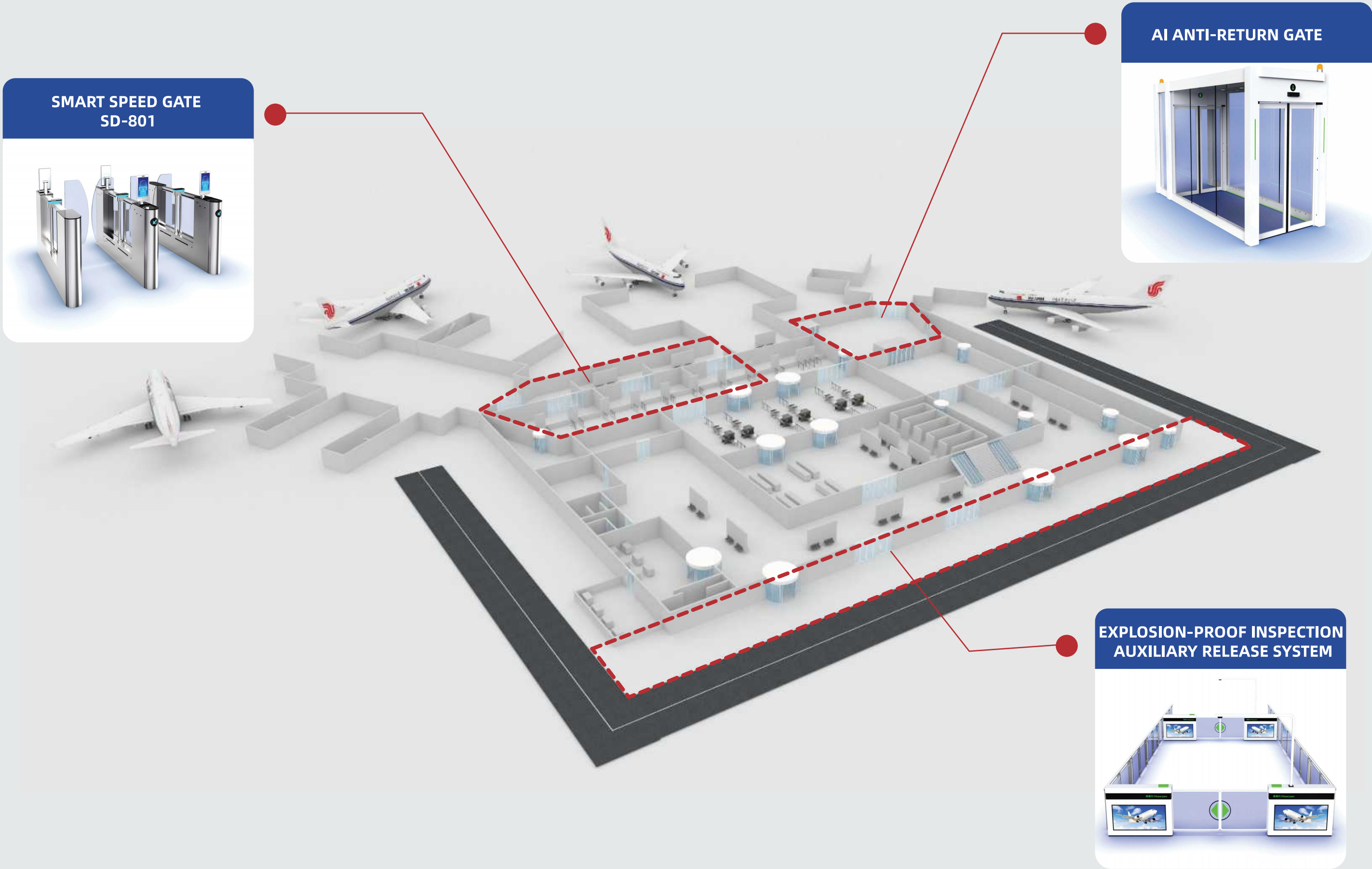
SMART AIRPORT SOLUTIONS

AI Anti-return Gate **01**

Explosion-proof Inspection
Auxiliary Release System **02**

Smart Speed Gate SD-801 **03**

Terminal Product Layout Diagram



AI Anti-return Gate

AI-Empowered Access Control System

The SZLG-ARG series anti-return gate products of LEGATE integrate self-developed AI vision algorithms, which can recognize and accurately locate passengers' movement trajectories in real time. This algorithm significantly enhances safety in the access control system and adds humanized control functions, making the products more intelligent.

The SZLG-ARG series anti-return gates are suitable for airport security reflow, transfer, domestic arrival, international arrival, customs, etc. Combined with airport intelligent equipment and platforms, they realize a complete closed loop for passengers from entry to exit.

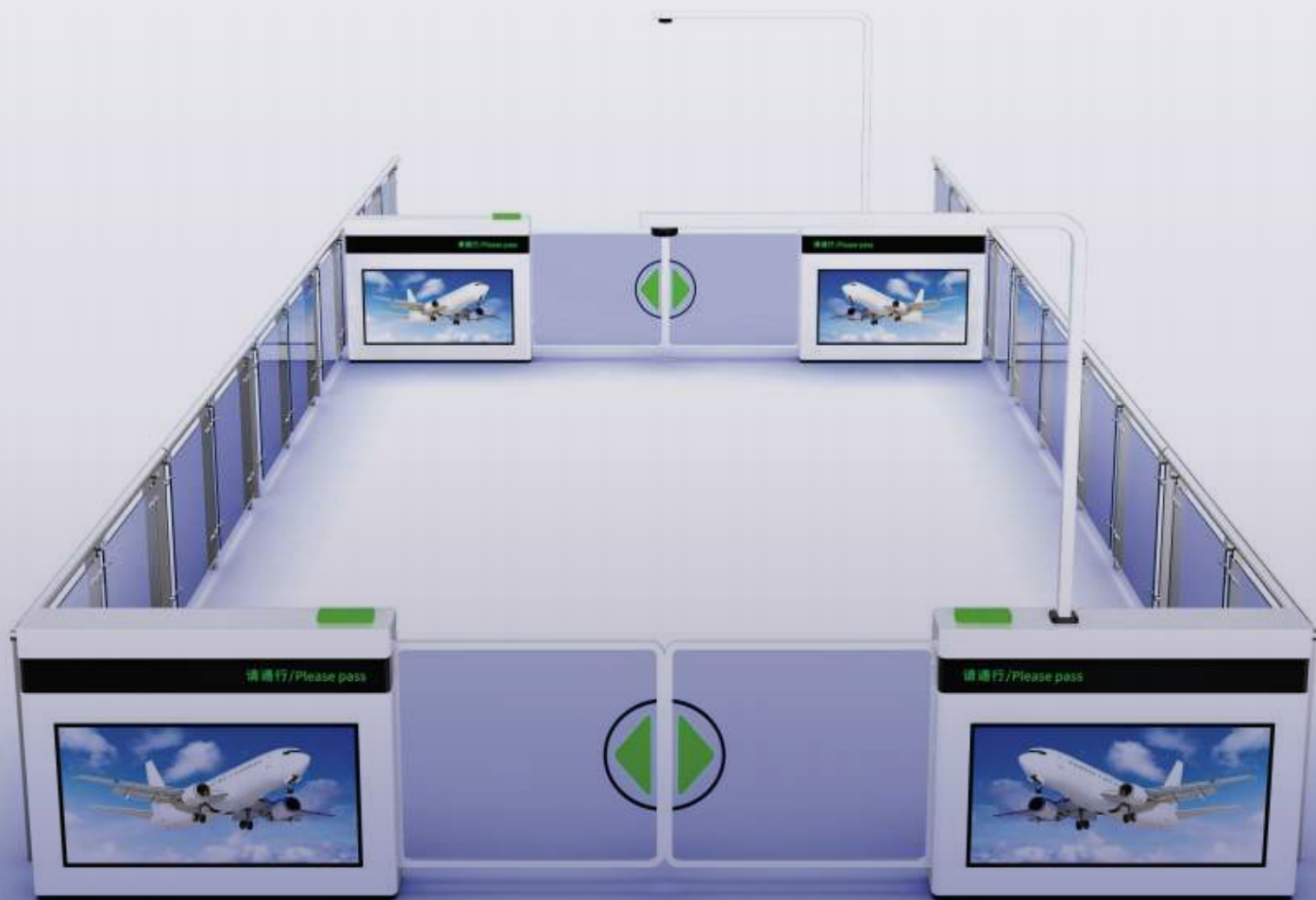


Product Features

1. Channel width options include 900mm, 1200mm and 1400mm, suitable for more scenarios.
2. Multi-modal sensor fusion enables real-time detection of conditions inside the channel and supports detection of re-entry inside and outside the channel.
3. Equipped with safety anti-pinch function to protect the normal passage of passengers.
4. With humanized sound and light indication, passengers can pass quickly according to the indication.
5. The channel adopts a fully transparent design, allowing airport staff to better understand the situation inside the channel.
6. Passengers can pass freely in one direction without providing any documents.
- 7.The top of the channel can be equipped with a smoke alarm, a sprinkler system and a video surveillance system.

Functional Features

Feature	Description
Pedestrian Position Tracking	After a passenger enters the detection area of the anti-return gate, the gate can recognize the passenger's position in real time until the passenger leaves the gate.
AI Re-entry Detection	After a passenger enters the channel, the AI visual module detects the passenger's movement trajectory in real time. If a re-entry behavior occurs, the anti-return gate will immediately give an audio and visual alarm and close the door to block the passenger.
Multiple Mode Switching	The product has interlocking mode, flow mode, cleaning/maintenance mode, emergency mode and fire alarm mode to meet the needs of daily operation and management. It also supports remote and remote control switching, which is easy to use.
Left Object Detection in Channel	The product has the function of detecting left objects on the ground and sides of the channel. If there is a left object, the channel will close the entrance and open the exit, give an audio and visual alarm at the same time, and transmit the information to the background to notify the staff to handle it on site, so as to avoid disputes.
Visual Passenger Flow Guidance	The product is equipped with a light and voice prompt system for indicating the channel status, which is convenient for passengers to understand and pass through the channel quickly.
Passenger Flow Statistics	The product has the function of counting the number of passing passengers and supports data reporting to the background.
Power-off Self-locking	The door movement of the product has a power-off self-locking function. When the equipment is powered off while the door wings are closed and there is no operation demand, it can automatically lock. At this time, the door wings are self-locked without other locking devices, and the equipment can automatically unlock and open the door when it is turned on.
Forced Push/Pull Detection	If someone forcibly pushes or pulls the door when the door is closing or in the process of closing, the anti-return gate will give an alarm and support the upload of alarm events.
Anti-pinch Function	During the door closing process, the whole product is equipped with a safety detection mechanism to ensure the safety of passengers. When a passenger accidentally enters the door that is being closed, the door can stop quickly when it touches the passenger, and the impact force is less than 150N.
Multi-platform	It can be linked with the monitoring platform, intercom platform, security inspection
Linkage	department system platform and fire protection platform. Through the security inspection department system platform, it can realize the display of equipment status, intercom and remote control. Through the fire protection platform, it can realize that the equipment automatically opens the door in case of emergency.



Explosion-proof Inspection Auxiliary Release System

Auxiliary Release System

The Explosion-proof Inspection Auxiliary Release System replaces the original personnel interception and release barrier tape by setting up a set of automatic release channels at the entrance of the terminal building. Explosion-proof inspectors manually enable remote door opening and release for passengers who have passed the explosion-proof inspection, which improves the automation of explosion-proof release and passage efficiency, reduces work intensity, and cuts labor costs.

The equipment adopts a high-flow unit to handle high-traffic scenarios at the terminal entrance. It can also serve as an advertising carrier, realizing multiple functions with one device. The device body has obvious red and green light indication marks, which can effectively guide personnel to pass through.

According to different usage scenarios and user groups, different front-end identification devices and control methods can be selected to adapt to different software.

Product Features

1. The maximum clear width of the channel can reach 3000mm, facilitating the passage of passengers with large luggage.
2. Equipped with a binocular passenger flow statistics module, which can count the number of passing passengers in real time and display it on the LED screen.
3. LCD all-in-one machines or light boxes can be installed on the front and back of the cabinet for advertising playback. It supports remote door opening and closing control via mobile APP or local deployment.
4. With a remote control distance of up to 50 meters, and there is no mutual interference when multiple devices are placed side by side.
5. With LED sound and light indication, passengers can pass quickly according to the indication.
6. It has an obstacle return function. When the sliding door encounters an obstacle during closing, it will automatically open. The resistance force can be adjusted.

Product Details

Equipment Material: The outer frame of the machine body is made of stainless steel or carbon steel with spray coating, and the inner frame is made of high-quality structural steel with a thickness of 3mm; the telescopic door is made of double-layer tempered glass with a single-layer thickness of 5mm, and the exterior is edged with stainless steel.

Door Drive: Adopts a highly reliable DC brushless motor.

Passage Indication: The entrance and exit of the equipment are equipped with obvious LED displays to show the current status of the channel; when the channel door is opened or closed, the LED indication at the entrance and exit will switch.

Advertising Playback: LCD all-in-one machines or light boxes can be installed on the front and back of the cabinet for advertising playback, supporting remote sending via mobile APP or local deployment.

Passenger Flow Statistics: A top-mounted binocular passenger flow statistics module integrates image collection, passenger flow statistics and analysis, and data transmission, which can count the number of passing passengers in real time and display it on the LED screen.

Technical Parameters

Parameter	Specification
Channel Width	Customizable, maximum up to 3000mm
Channel Height	1200mm
Main Material	The outer frame of the machine body is made of stainless steel or carbon steel with spray coating; the inner frame is made of high-quality structural steel with a thickness of 3mm
Door Wing Type	Double-layer tempered glass with a single-layer thickness of 5mm, and the exterior is edged with stainless steel
Power Supply	AC220V +10% ~ -15%, 50/60Hz
Power	Peak power: 200W; Standby power: 20W
Switching Time	Opening time: 2.5±0.1s - 3.5±0.1s; Closing time: 3.2±0.1s - 4.0±0.1s
Anti-pinch	Double protection: 4 pairs of infrared detection + motor current detection



Smart Speed Gate SD-801

AI Intelligent Access Solution

The SD-801 intelligent speed gate product is equipped with an advanced DC brushless servo motor and a self - developed accurate detection algorithm, which can monitor the status of personnel in the channel in real time. This algorithm greatly improves the stability and safety of access management, while integrating multiple intelligent functions, which greatly increases the intelligence level of the product.

The product is widely applicable to various medium and high - traffic places, such as personnel access control in airports, subway stations, large venues, etc. It links with the intelligent systems and platforms in the places to realize efficient and orderly management of personnel access and provide a complete closed - loop solution for personnel flow control.

Product Features

1. Cabinet body is made of SUS304 stainless steel, with partitions and top cover plates made of tempered glass, and door wings made of 10mm tempered glass, which balances durability and transparency.
2. Equipped with a DC brushless servo motor, combined with a clutch + encoder locking mechanism, featuring a service life of over 30 million cycles and stable and reliable operation.
3. Equipped with 14 pairs of sensors, it realizes accurate detection and supports multiple safety functions such as anti-following, anti-pinch and overtime passage prevention.
4. Equipped with a 10.0-inch industrial touch screen (supporting Baidu face recognition technology), enabling convenient verification through face recognition.
5. Providing GED/GTD light indication and sound prompt functions to clearly guide the passenger passage status.
6. Supporting fire linkage and emergency release functions, and can be linked with external systems to meet the needs of emergency scenarios.
7. Automatically open the door when power is off to ensure the safe evacuation of personnel in emergency situations.

Technical Parameters

Parameter	Specification
Overall Dimension	1650×180×1200mm (door wing height)
Channel Width	650mm - 900mm, customizable
Power Supply Voltage	220VAC ±10%, 50Hz ±5%
Power	Maximum power: 415W; Standby power: <100W
Main Material	Cabinet: Stainless steel SUS304; Top cover: 10mm black translucent tempered glass (with silk screen); Door wing: 10mm tempered glass; Partition: 8-10mm tempered glass
Movement Parameters	Motor type: DC brushless servo motor; Service life: >30 million times; Locking mechanism: Clutch + encoder; Forced opening force: 250N ±30% (175N - 325N); Door opening/closing speed: 0.5 - 1S (adjustable); Motor output torque: 23.5N.m
Sensors	14 pairs for position and status detection
Sound and Light Prompt	1 power amplifier board, 1 loudspeaker; GED (pass/no entry indication), GTD (authorization success/failure indication)
Power-off Configuration	Automatically opens the door when power is off
Passage Direction	One-way passage
Overall Noise	<60dB
Communication Interface	RS232, RJ45; Communication protocol: MODBUS