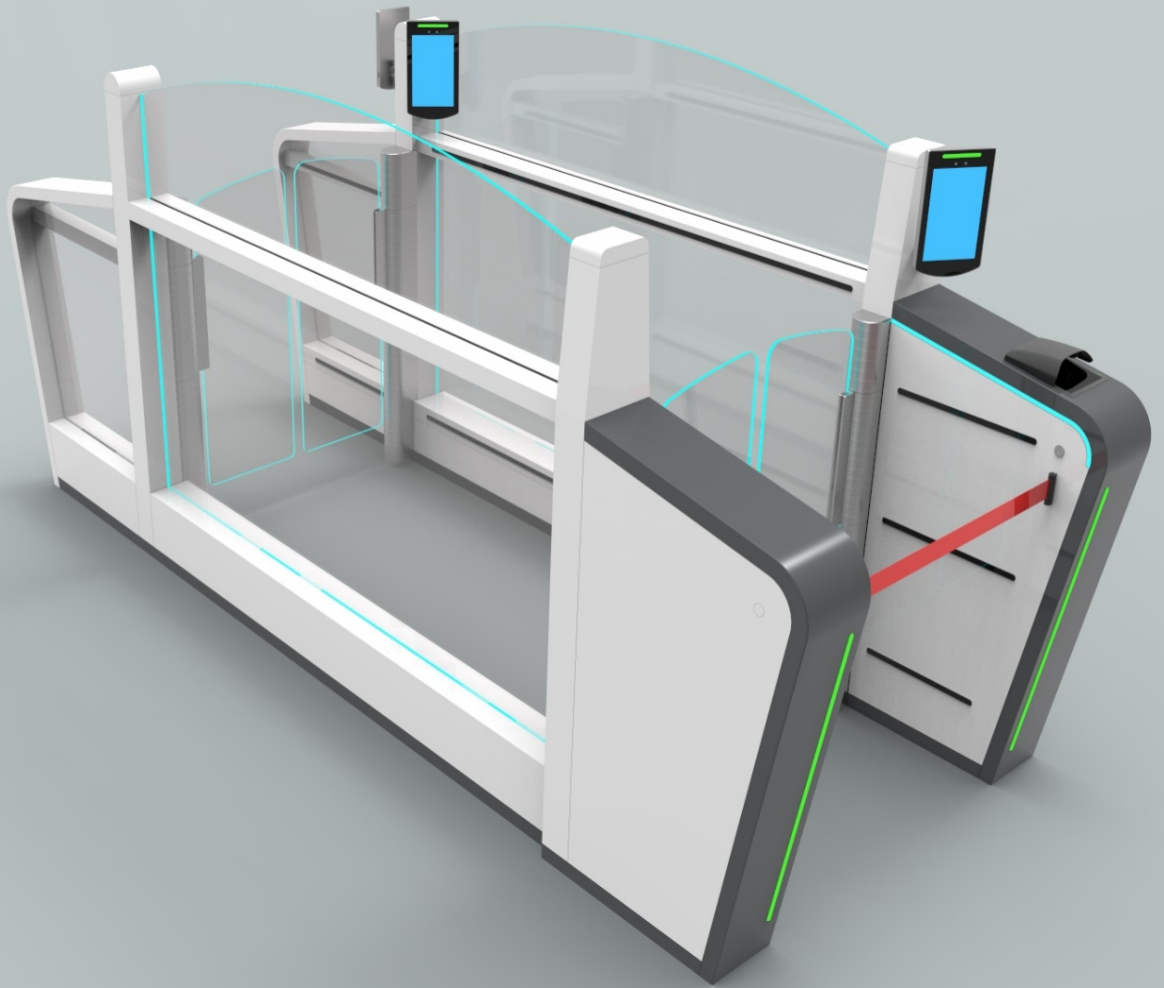




Intelligent Swing Gate Turnstile

CPW-181Y

Product Manual V3.2

Contents

Product Description.....	1
Structure Chart.....	2
Dimension Figure (Unit: mm)	2
Product Parameters	3
Product Function	3
Product Customization	6
Contact Us.....	7

Product Description

Intelligent swing gate turnstile CPW-181Y is transparent and bright, simple and elegant; the housing made of stainless steel is durable; the mechanism modules are adopted the top-tier industrial grade brushless DC servo motor and servo vector control technology, so as to make sure the swing gate can move quickly and accurately, stably and quietly, with low-power consumption, energy conservation and environment protection.

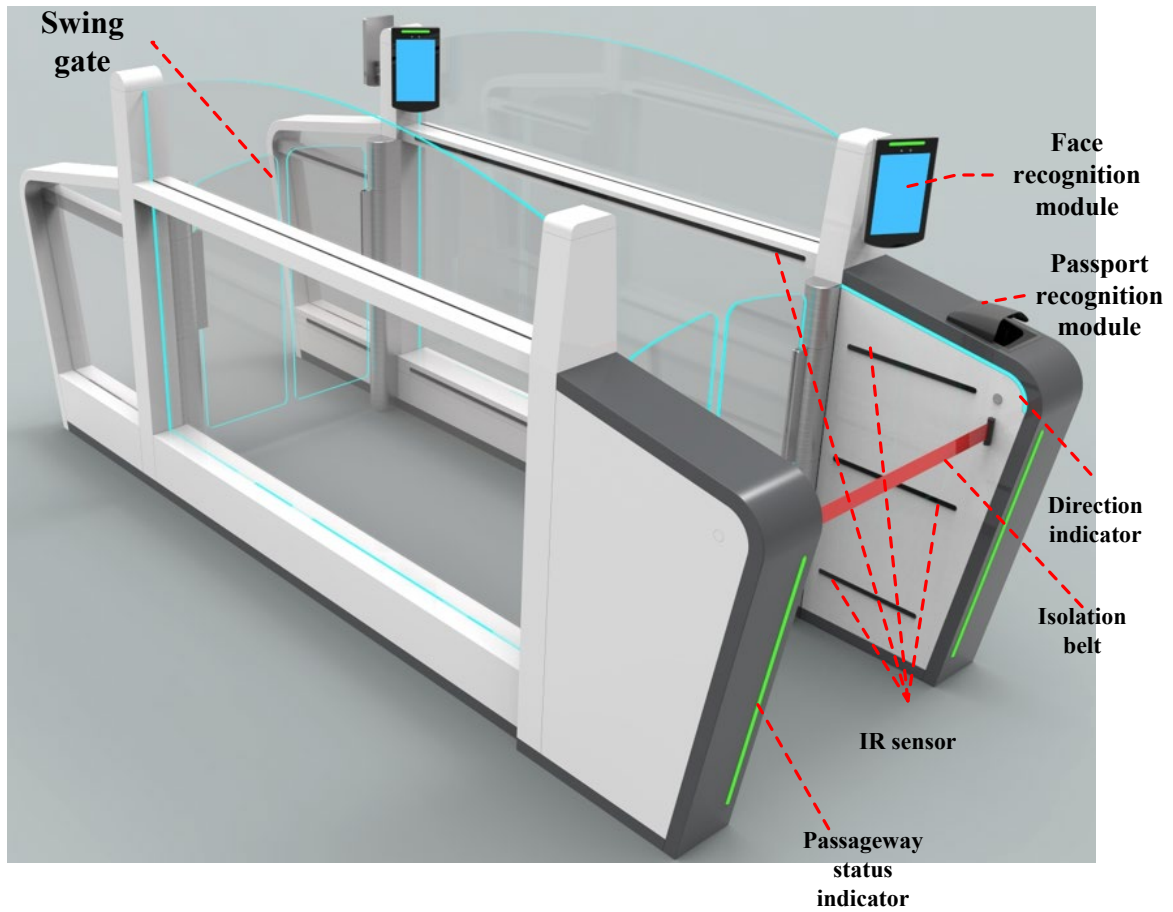
Feature

- ✧ Two swing gates interlocking, when A/B gates open, B/A gates close. The verification and identification of both two doors are passed before they are released, and the security level is very high.
- ✧ By using 32 pairs of military level high-performance infrared sensors and exact algorithms, it can accurately detect the pedestrian's passing position to achieve such as anti-tailgating, anti-reverse passing, anti-clamping and so on.
- ✧ Adopt multiple anti-clamping designs, such as infrared anti-clamping, machinery anti-clamping and advanced electric current detection anti-collision in turnstile industry, to maximally protect the personal safety of pedestrians.
- ✧ The wider lane is optional for carrying luggage and wheelchair access.
- ✧ Support various IC/ID identification, biometric identification and identification technologies, including face recognition, ID/passport identification, fingerprint identification, vein identification, etc.
- ✧ Equipped with the dry contact signal input interface, RS485/RS232 interface, TCP/IP interface (optional), compatible with all kinds of access controllers.

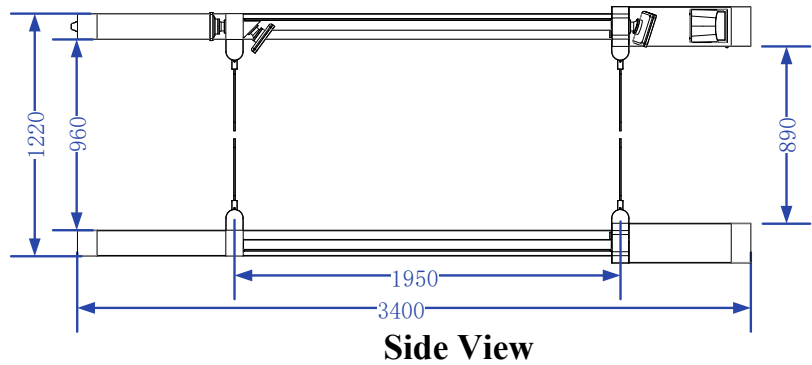
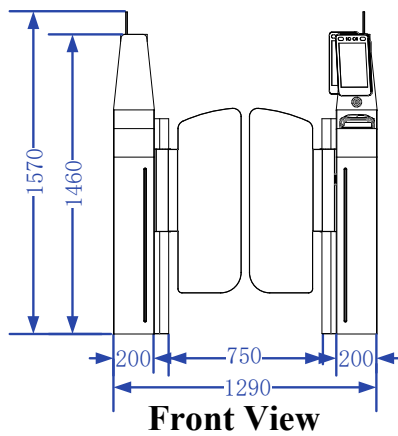
Occasion Applications

Suitable for airports, customs and other immigration indoor applications.

Structure Chart



Dimension Figure (Unit: mm)



Product Parameters

Structure Parameters	
Housing material	Alloy sheet
Surface treatment	painting
Swing gate material	Organic glass
Technical Parameters	
Normal throughput capacity	30 ~ 45 people / min (according to the condition of pedestrians)
Evacuate throughput capacity	60 people/min (according to the condition of pedestrians)
Opening speed of swing gate	0.3-0.6s
The turning angle of swing gate	±90°
Operation temperature	- 20℃~60℃
Electric Parameters	
Power supply	AC100-240V, 50/60Hz
Rated power	150W
Input / output signal	2*(12-channel relay signal output / 8-channel dry contact signal input)
Communication interface	RS485 / RS232; TCP/IP interface (customizable)
Driving motor	Industrial grade brushless DC servo motor
Method of motor control	Servo vector control

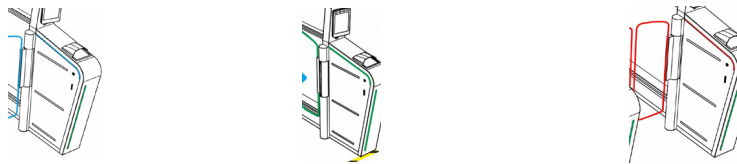
Product Function

● Basic Function

- **Passing mode switching function:** The entry and exit can be set independently **【controlled mode】** / **【 free mode 】** / **【 forbidden mode】**
- **Automatic reset function:** The turnstile will open the gate after receiving the legal opening signal when standby. The swing gate will return to the hindered zero position automatically under the following situation:
 - (1) Within the allowed time, pedestrians have been detected in the specified direction passing the passage;
 - (2) Over the allowed time, there is no people has been detected passing in the passage.
- **Self-recovery function:** The swing gates do not return to the hindered zero position because of

human intervention. After revoking human intervention, the gate automatically return to the hindered zero position.

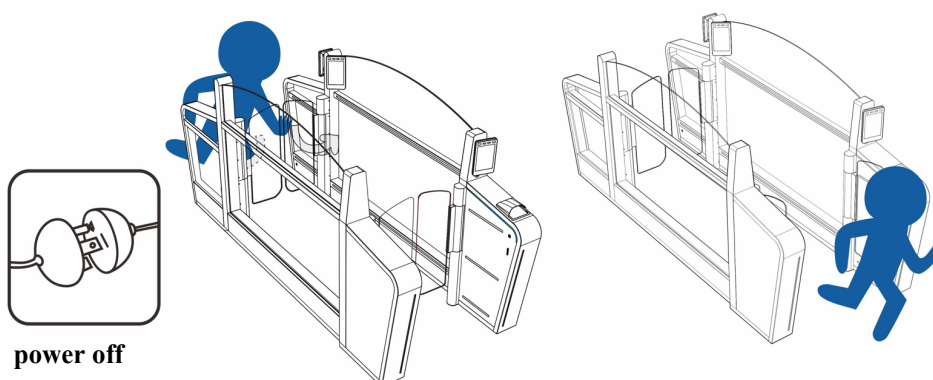
- **Automatic adjustment function:** When the turnstiles need to re-adjust because of mechanical wear, the main board can automatically adjust, accurate and convenient.
- **Passageway status indicator:** It is installed at the side of the housing, indicating whether the swing gates can open after receiving the valid signal.



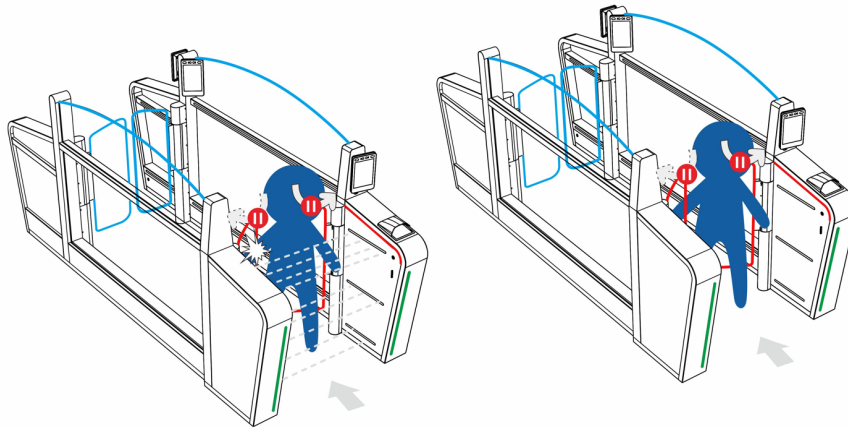
- **Compatibility:** Equipped with the dry contact signal input interface, RS485/RS232 interface, TCP/IP interface (optional), compatible with all kinds of access controllers.

● Security Design

- **Self-check function when power on:** The system will self-check routinely and alarm when the power is on, and intelligently detect the key hardware and function. Find the hidden danger within the shortest time!
- **Open gate when the power is failure:** Adopt the leading mechanical structure by original creation; the system will unlock the gate automatically when power is off; manually push the gate to be open and convenient to evacuate people, which meets the fire requirement.



- **Anti-clamping function:**

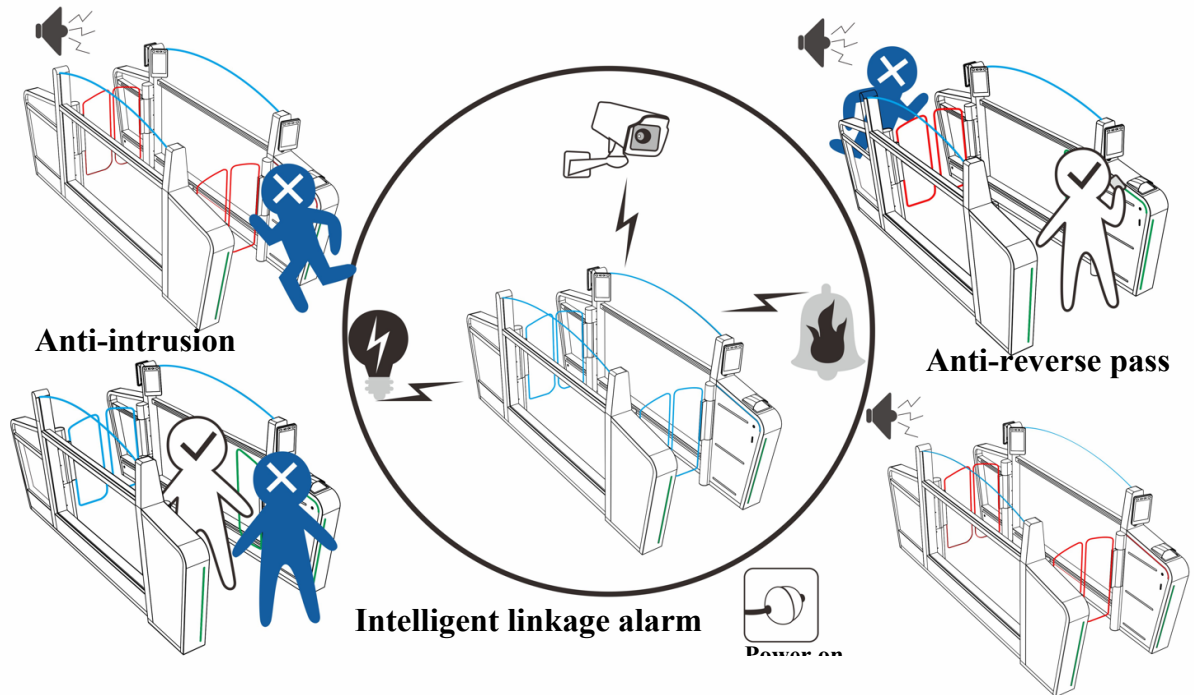


(1) Infrared anti-clamping: Install multi-pair of infrared sensors near the anti-pinch area where swing gate is moving. Once people or thing is detected within the anti-pinch area, the swing gate will automatically stop moving; until the people or thing leaves the anti-pinch area, the swing gate will continue to move.

(2) Machinery Anti-clamping: The swing gate will automatically stop moving when the swing gate encounters obstacles; the impulse force is within the safety range when the swing gate is moving.

(3) Electric current detection anti-clamping: If the gate encounters obstacles during its moving, and the system detects the abnormal current, the motor will stop or reversely move to prevent clamping pedestrian.

- **Over force feedback control function:** When the gate is locked, it can support the impulse force within the safety range. The gate can be manually pushed slowly when it is over the safety range, to protect the mechanism and pedestrian, and then recovers automatically.
- **Emergency escape function:** Equipped with emergency escape control device, the system can automatically open the gate, easy for evacuation.
- **Intelligent linkage alarm:** Illegal traffic events can be linked with other alarm monitoring equipment: such as access control systems, video management systems.



Product Customization

● Customized Functions

- Built-in or external counter
- TCP / IP communication

● Door open button

- External door open button.
- Install the door open button with wireless remote control.

● Lane width

- The lane width can be custom-made as larger size, and the maximum can be 900mm, but the length might need to be changed accordingly.

● Materials

- The material of housing can be 316 grade stainless steel, and the thickness of stainless steel can be customized.
- The material of swing gate can be organic glass, tempered glass, polycarbonate board and so on, and the color can be customized.

● System Integration

- Integrate with access control system and built-in reader provided by customers.
- Integrate with visitor access control system.
- Integrate with ticketing system.
- Integrate with face recognition system / ID verification system.