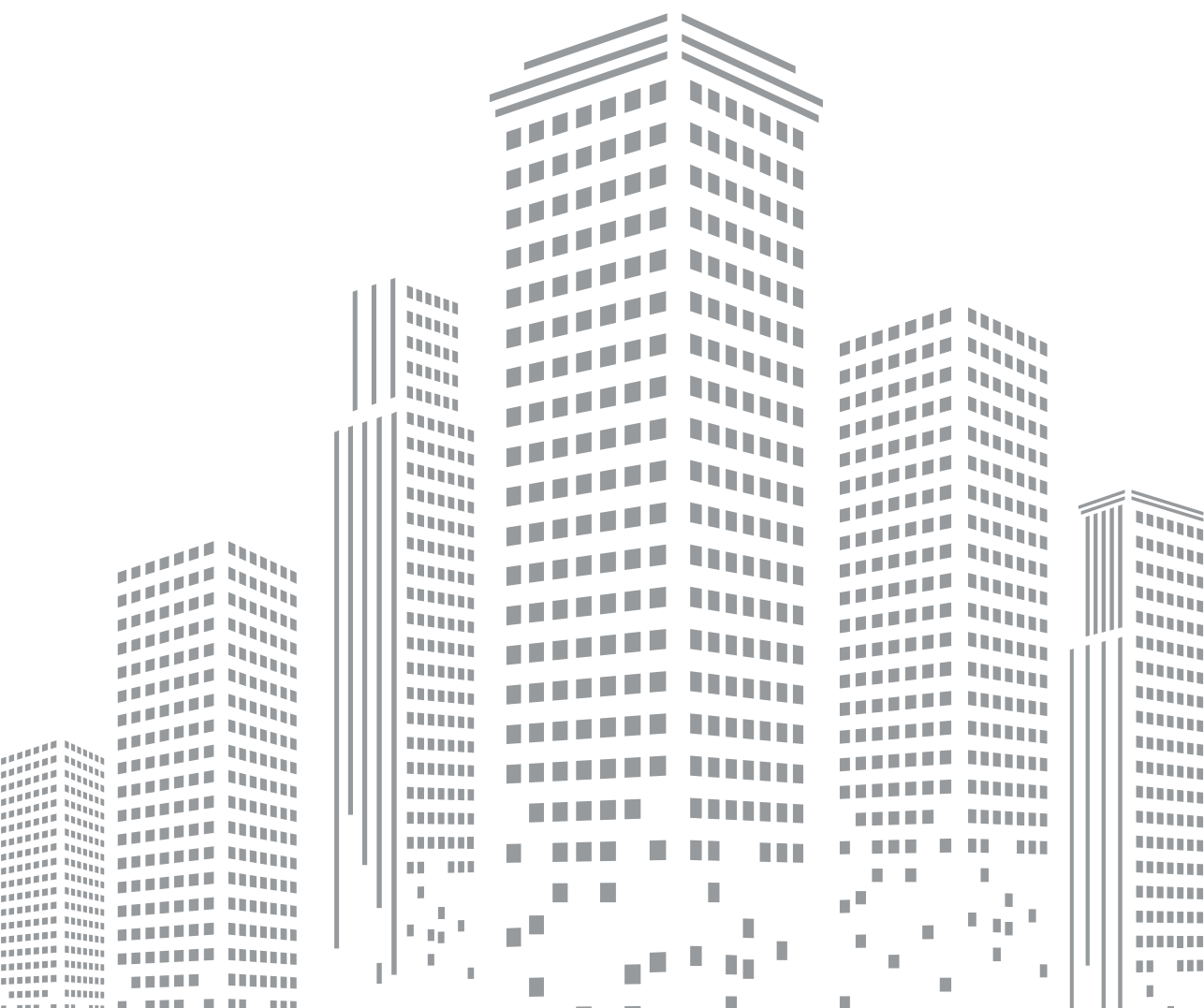


iHORN

PROFESSIONAL SECURITY PRODUCT & SYSTEM PROVIDER

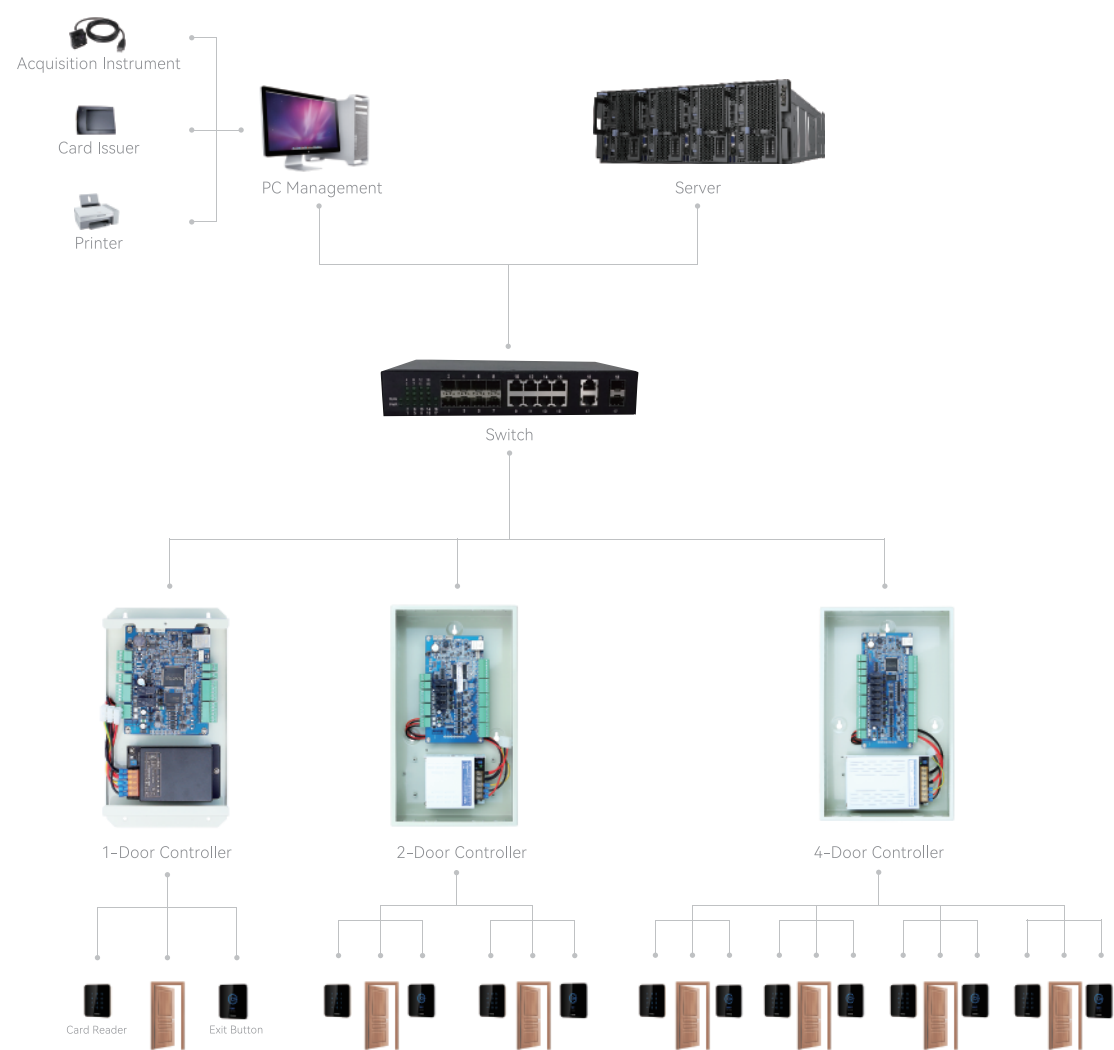
Access Control Product Brochure



Access Control System Solutions

The access control system consists of recognition devices (card reader, fingerprint machine, face machine, etc.), door button, control part (electric lock, channel gate, etc.), access controller, network equipment, background management software and system management computer/server.

The access control management computer is placed in the monitoring center, and the access control management software is installed on the management computer, which is responsible for the maintenance and management of the whole access control system. As the main control device of the access control system, the access controller controls the processing and storing of the data collected by the recognition devices, communicates with the management computer, exchanges data and realizes the control of the access control system.



Access Control Series

Access Controller L-Series

The new series of access controller kept the functions of its predecessor. The quality of the hardware has been improved. The function and application have been further optimized. It has been praised and recognized by customers for its safety and stability. The controller adopts the way of double-database combination operation in the respect of big data. Using cell phone client mode, it also applies both B/S and C/S system architecture to realize the cross-platform operation. The interface of the software has also been optimized and well-designed to deliver simple and useful experience to the customer.



Features

1. Linux-based hardware development, unique architecture and the latest multitasking processor.
2. Data transmission adopts TCP/IP network communication, which has the significant advantages of real-time, active, two-way data transmission and online upgrade.
3. RS232 / 485 communication interface is reserved for easy maintenance.
4. The product processing accuracy is up to 60nm, with voltage detection, frequency detection module and filter, pulse sensor, temperature sensor. The controller will self destruct the data to ensure security and reliability when the metal shielding detects external attacks.
5. Highly reliable dual data backup; high level of protection against lightning (5KV), moisture, dust, overcurrent, overvoltage, reverse connection and wrong connection.
6. Large capacity and fast response, to achieve 1 single access controller in the storage of 100,000 people while the response time of the card is less than 0.2 seconds.
7. Powerful expansion function: the controller can be expanded to online patrol, attendance, meeting check-in system, etc.
8. Support face, fingerprint, card or combination of door-opening methods.

Model	L-A8010	L-A8020	L-A8040
Working Environment	-20℃~+75℃; Humidity: 0~90%RH		
Working Voltage	DC 12V, <200mA (without electric lock)		
Communication	TCP/IP		
User	500000		
Log Event	1000000		
Compatible Card Reader	Devices compliant to standard WIEGAND protocol		
Doors	1	2	4
Card Readers	2	4	4
Exit Buttons	1	2	4
Auxiliary Input	1	2	4
Auxiliary Output	1	2	4
Door Sensor Signal Input	1	2	4
Two-way Door	Yes	Yes	No
Main Board Dimension	120 x 98mm	180 x 98mm	218 x 98mm
Metal Box Dimension(without battery)	265 x 144 x 54mm	350 x 206 x 83mm	380 x 246 x 85mm
Metal Box Dimension(with battery)	420 x 330 x 87mm		

Access Control Card Reader R-Series

The non-contact card reader is based on independent software and hardware technology development, supporting 13.56M IC card reader, which adopts low power consumption, environmental protection device design and manufacturing.

Features

- 1. Anti-copy, perfect solution to IC card copying.
- 2. Environment-adaptive design, endures high temperature of up to 75 °C.
- 3. Support ID card, bank financial card, NFC, IC card, etc.
- 4. Unique chord tone prompt.
- 5. OEM brand logo on the panel (MOQ 500 pcs).
- 6. Optional backlight standby indicator (red and blue).



R2000



R2000K



R2100



R2200



R2200K

Model	R2000/R2000K	R2200/R2200K	R2100
Working Voltage	DC12V		DC12V
Working Current	30mA static, less than 50mA max.		30mA static, less than 50mA max.
Communication	WIEGAND26/34	WIEGAND26/34+RS485	WIEGAND26/34
Supported Protocol	ISO14443A MIFARE sector information read/write function		ISO14443A MIFARE sector information read/write function
Status Alert	Dual-color LED, 1 buzzer		Dual-color LED, 1 buzzer
Temperature Range	-40C~+80°C		-40C~+80°C
Humidity Range	0~95% (no condensation)		0~95% (no condensation)
Protection	Potting or spraying according to the use of environment		Potting or spraying according to the use of environment.
Material	Plastic frame + tempered glass panel		Plastic frame + tempered glass panel
Color	Standard panel is black, frame silver gray		Standard panel is black, frame silver gray
Dimension	100 x 86 x 8.6mm		120 x 45 x 15mm
Supported Card Type	ID card, bank financial card, NFC, IC card		ID card, bank financial card, NFC, IC card

All-In-One Access Controller

All-in-one access controller is a smart neighborhood network access control product, which can effectively monitor and manage the user's entry and exit in real time, thus improving the security of the neighborhood. It is especially suitable for small office and space with single door. The all-in-one controller is the ideal solution for postal and telecommunication base stations and self-service banks.

Features

- 1. Waterproof, fireproof and flame retardant material.
- 2. Luminous function, easy to operate at night.
- 3. Dual-color LED, different permission cards light up different colors.
- 4. High sensitivity, strong anti-interference.
- 5. Support customized anti-tamper function.
- 6. Online working mainly, can also be used offline. When the all-in-one machine is online, offline data will be automatically uploaded.
- 7. Built-in card reader function: support for M1 card, ID card, NFC, CPU card.
- 8. Dynamic voltage protection: all input/output with voltage dynamic protection; all electric lock output with instantaneous over-voltage and short-circuit protection.



ACM5802 Pro



ACM5802 Pro-k

Model	ACM5802 Pro /ACM5802 Pro-k
Working Voltage	DC12V
Working Current	Static 80mA, max. less than 180mA
Communication	WIEGAND26/34
Supported Protocol	ISO14443A MIFARE sector information read/write function, ISO14443B
Status Alert	Bi-Color LED, 1 Buzzer
Temperature Range	-25℃~+65℃
Humidity Range	0~95% (no condensation)
Protection	Potting or spraying according to the use of environment.
Material	Plastic Bezel + Tempered Glass Panel
Color	Standard panel is black, bezel are silver gray
Users	30000
Dimension	100 x 86 x 8.6mm

All-In-One Fingerprint Machine

The product is mainly based on fingerprint biometrics, which combines card reading function. It can be widely used in the fields of finance, transportation, hospital, taxation, and educational areas, etc. The software has the functions of attendance and access control. Communication supports RS485, TCP/IP, WG26/34 and other interfaces.

Features

- 1.Exclusive power saving mode.
 - (1) Adopting inductive fingerprint collector. The collector will be activated only when the finger is close to it
 - (2) Adjust the TFT backlight automatically in standby mode to save power
 - (3) Controllable key backlight, it will be turned off when in standby mode.
- 2. Built-in card module as standard, realizing multiple authentication of proximity card and fingerprint (CSC803 contains password input)
- 3. Wiegand signal output, seamless connection with all standard controllers
- 4. Direct internal electric lock control. door switch, door maanetic detection, independent control mode.
- 5. Perfect alarm mechanism: tamper alarm, force alarm, llegal door opening alarm, door not closed alarm, timed of wrong password alarm, fire linkage alarm



CSC802



CSC803

Model	CSC802	CSC803
Dimension	105 x 105 x 30mm	192 x 87 x 42mm
Screen Display	2.4 inch TFT color screen	
Fingerprint Capacity (pcs) / Card Capacity (pcs)	3000 / 3000	
Record Capacity	100000 log events	
Recognition Speed	≤1.0s	
Display Language	Chinese (Simplified/Traditional) (English and other languages are optional)	
Input	Door sensor x1, exit button x1, WIEGAND x1, auxiliary input x1	
Output	Door lock x1, WIEGAND x1, auxiliary output x1	
Alarm	Anti-tamper, door not closed alarm, force open alarm, fire linkage alarm	
APB	Both side of the door	
Working Voltage	DC12V	
Working Temperature	-5℃~+60℃	
Color	Black	
Verification Method	Fingerprint, card (standard IC card, customizable ID card), password (CSC803)	
U-disk dump/RS485/TCP/IP/Doorbell	Yes	

Physical Key Access Control All-In-One Machine

ACM5803K/ACM5804K are newly developed products,which adopt a full metal physical button panel and an IP65 waterproof level design, and support numerous conventional non-contact ID cards/IC cards, with a flexible keyboard panel operation, built-in high-end microprocessor, strong resistance to metal interference, high security, and can provide strong security protection for 5000 users.They have powerful functions, such as luminous keyboard,independent password,Wiegand output,output short circuit protection,door magnetic alarm,anti disassembly alarm, switch button,doorbell interface,security level setting, etc.

Features

- 1. Supports two working modes, access control mode and read head mode.
- 2. The shell material of the access control all-in-one machine is metal, which has a small impact on the installation environment.
- 3. Support importing and exporting user data.
- 4. Support serial port upgrade.



ACM5803K



ACM5804K

Model	ACM5803K / ACM5804K
Smart cards and protocols	EM4100/4102/4200/4305/4450
	MIFARE Classic, MIFARE DESFire EV1/2, MIFARE Ultralight
	MIFARE Ultralight C, CPU, NFC Forum type 1、2、4 tag
	ISO 14443A
Working Frequency	13.56MHz, 125KHz
Reading Distance	0~3cm, Related to installation environment and cards
User Capacity	5000
Supply Voltage	DC 9~15V
Working Current	When powered by 12V, standby current ≤ 150mA, working current ≤ 200mA
Working Temperature	-20℃ ~ 60℃ (-4°F ~ 140°F)
Working Humidity	20 - 80% No condensation
Storage Temperature	-40℃ ~ 80℃ (-40°F ~ 176°F)
Protection Level	IP65
Authentication	No
Guarantee	One year
Size	120mm×86mm×22.3mm ±0.2mm

Face Recognition Series

All-In-One 8-Inch Face Recognition Machine

Features

- 1. Exclusive face recognition algorithm, accurate face recognition, face recognition time is less than 0.3s.
- 2. 8-inch IPS full-viewing angle high-definition display, image drag-free, no delay, H.265 coding format video circulation.Directly connect to NVR and other storage devices through ONVIF protocol.
- 3. Support TF card storage, picture continuous storage for 1 year, video continuous storage for 1 month or longer(and optional TF card capacity).
- 4. Support binocular live body detection, strong backlighting environment of the movement of people face tracking exposure.
- 5.Outdoor IP66 level waterproof, dustproof, unique anti-tampering alarm.
- 6. Support card, face and combination of ways (standard IC, can be customized second generation ID card, ID,password,etc.)



CS-FC609

All-In-One 4.3-Inch Face Recognition Machine

Features

- 1. Unique face recognition algorithm, accurate face recognition, face recognition time less than 0.8s.
- 2. 5-inch IPS full-viewing anale hiah-definition display, image without drag, no delay, H.265 coding format video stream through the ONVIF protocol to connect directly to the NVR and other storage devices
- 3. Support TF card storage, continuous storage of pictures for 1 year, continuous storage of video for 1 month or longer(and optional TF card capacity).
- 4. Support binocular live body detection, strong backlighting environment of the movement of people face tracking exposure.



CS-FC619

Model	CS-FC609		CS-FC619	
Dimension	215 x 130 x 15mm		160 x 88 x 17mm	
Screen Specification	8-inch HD IPS screen 1920 x 1080		4.3-inch HD IPS screen 1920 x 1080	
Minimum Illumination	Color 0.01Lux @F1.2 (ICR) / B/W 0.001Lux @ F1.2 (ICR)			
CPU	Dual-core processor + 1G RAM + 16G flash memory			
Video Encoding	H.265 Main Profile Encoding ; H.264BP/MP/HP Encoding/MJPEG Encoding			
Operating System	Linux			
Algorithm	Deep learning face recognition algorithm			
Face Library	24000		10000	
Recognition Time	<0.3s		<0.8s	
Recognition Distance	0.5~1m		0.5~1.5m	
Camera Specification	Binocular Camera, 2.1 effective megapixels, 6mm lens. Supports live detection, visible and NIR			
Imaging Device	1/2.8" Progressive Scan CMOS			
Signal-to-noise ratio	≥50db(AGC OFF)			
Wide Dynamic	100db, isp algorithm face partial exposure			
Image Resolution	Main Stream: 50Hz:25fps (1920x1080,1280x720)60Hz:30fps (1920x1080,1280x720) Subcode Stream:720*576, 1-25(30)fps;640*480, 1-25(30)fps;320*240, 1-25(30)fps			
Interface	TCP/IP*1, Public IO*2, Electric lock*1, Wegen input*1,WIEGAND output*1, USB*1, anti-tamper*1, door magnet*1			
Protection	IP66		/	
Salt Spray Rating	Rp6		/	
Power supply and consumption	DC12V/3A, 20W(MAX)		DC12V/2A, 20W(MAX)	

All-In-One 5-Inch Fingerprint Face Recognition Machine

Features

- 1. Industrial grade design, stable performance, smooth lines.
- 2. Support anti-reflective light.
- 3. 5 inch LCD touch screen.
- 4. Support live detection.
- 5. Built-in swipe card.
- 6. Support WiFi function.
- 7. Support fingerprint identification function.
- 8. Recognition speed less than 1 second.
- 9. IP65 waterproof, strong environmental adaptability.
- 10. Standard 10000 portrait library.



CS-FC620

Model	CS-FC620
Screen Specification	5-inch LCD touch screen
Device Configuration	Memory 512MB, storage 8GB
Operating System	Embedded Linux operating system
Fingerprint Library	3000 pieces
Face Library	>10000 pieces
Recognition Time	≤1s
Recognition Distance Configuration	0.3~1.5m, variable viewing lens
WiFi	Support 2.4GHz
Recognition Mode	Face recognition, Card swiping,Face + Card Match Verification,Face +ID Document Comparison, Password, Fingerprint
Stranger Detection	Support
Recognition Distance Configuration	Support
UI Interface Configuration	Support
Remote Upgrade	Support
Protection Level	IP65
Power Consumption	Max.15W
Image Sensor	1/2.9-Progressive scan CMOS
Bluetooth	Support
Device Size	174.5x84x18mm

All-In-One Palm Vein & Face Recognition Machine

Palm vein recognition is a relatively new biometric technology that utilizes the veins inside a person's palm for identity verification. It employs infrared light to map the unique venous structure of the palm, capturing over 300,000 data points. The palm scanner then converts these data points into a unique encrypted code, which becomes your one-of-a-kind biometric ID.



CS-FC680

Features

1. Integration of palm vein, card swipe, and facial recognition methods.
2. Breaks height/age limitations—opening the door with just a raised hand.
3. Unaffected by dry or aged skin conditions—fast, accurate, and stable recognition.
4. Resists surface contamination—easily opens despite dirt or sweat.
5. Utilizes infrared liveness detection algorithm with a recognition rate of up to 99%.
6. Contactless operation prevents cross-infection.
7. Built-in database storage allows normal operation without an internet connection.

Model	CS-FC680
Screen	5-inch IPS Display
Hardware Platform	1.8Ghz CPU, 1GB RAM + 8GB ROM
Operating System	Android OS
Authentication Methods	Palm Vein, Facial Recognition, Card Swipe
Authentication Mode	Multi-mode Authentication (1:1, 1:N, etc.)
Communication	TCP/IP
Operating Environment Temperature	-15°C--55°C
Operating Voltage	DC12V
Recognition Time	< 0.5s
Capacity	5,000 palms, 5,000 faces, 5,000 cards

2.8-Inch Face Recognition Machine

The product features a compact design and comprehensive functionality. It utilizes a high-performance domestic AI terminal chip and runs on a Linux open-source operating system, integrated with an AI-powered facial recognition algorithm. This enables highly efficient and accurate facial recognition, along with other identity verification methods such as RFID and password authentication. It effectively meets practical needs in access control scenarios, including door access management and attendance tracking.

It is well-suited for various scenarios such as offices, small meeting rooms, and entrances to computer rooms.

Features

- 1. Built-in domestic CPU
- 2. Supports binocular liveness detection
- 3. Operating temperature: 10°C- +50°C
- 4. Utilizes Linux OS for system stability
- 5. Mean Time Between Failures (MTBF) > 50,000 hours
- 6. Supports wired network communication and WiFi communication functions
- 7. The device supports binding to the intelligent access control and attendance management platform by default
- 8. Built-in card swiping module, supports expansion for ID card swiping functionality
- 9. Equipped with a built-in three-color indicator light that provides prompts based on verification results
- 10. 2.8-inch capacitive touchscreen with no image smearing or lag
- 11. Supports front-end touchscreen operation and local login to the backend for management, querying, and device configuration
- 12. Unique facial recognition algorithm for accurate identification, with recognition time under 0.5 seconds
- 13. The device features a compact and elegant design, perfectly suited for access control scenarios in offices and small meeting rooms.
- 14. Offers a variety of hardware interfaces (USB 2.0, relay, door opening input, door sensor input, Wiegand output, etc.)



CS-FC613

Model	CS-FC613
Screen	2.8-inch LCD
Recognition Distance	0.3-1.5 meters
Recognition Time	< 0.5s
Facial Capacity	2,000
Record Capacity	50,000
Card Reader Module	13.56MHz frequency band card recognition, supports ISO/IEC 14443 Type A.
Camera	Binocular camera, supports liveness detection
Power Consumption	10W
Protection Rating	IP42
Product Dimensions	86 × 86 × 17 mm

10-Inch IP Video Intercom Door Station

The CS-FC30X series video intercom is a new-generation digital community intelligent connectivity system that integrates video intercom, security protection, and cloud-based intercom functions. It boasts powerful features, fast communication speed, excellent compatibility, strong system scalability, high security and reliability, simple operation, easy installation, and easy maintenance. Meeting users' demands for advanced functionality and personalized needs, it delivers an intelligent and user-friendly living experience.



Features

- 1. Aluminum alloy case, touch key operation, color LCD display
- 2. HD binocular camera with automatic gain control function
- 3. Support access control via IC card, CPU card, bank card, and mobile NFC
- 4. Support facial recognition with liveness detection function, and the recognition time is less than 500ms
- 5. Support room numbers up to 99 Building, 99 Unit, 9999 Number
- 6. Support WeChat video intercom, QR code door opening, dynamic password authorization, and remote unlocking
- 7. Support video advertisement playback, background management via the management center
- 8. Support motion detection function, automatically activating the screen when visitors approach
- 9. Support Power over Ethernet (PoE)

Model	CS-FC302M		CS-FC301M
Camera	2MP 1/2.7" HD Camera		
Display	10-inch IPS LCD Display		4.3-inch LCD Display
Face Database Capacity	20,000		
Resolution	800 × 1280		480 × 272
Operating Current	< 2.2A		
Operating Voltage	DC 12~15V		
Operating Temperature	-20~70°C		
Dimensions	358 × 190 × 48 mm		360 × 140 × 50 mm
Facial Recognition	Accuracy ≥ 99.5%; Comparison Time 0.5s		
Operation Method	Touchscreen Operation		
PoE Power Supply	Supported		
Liveness Detection	Prevents spoofing by photos or videos.		

IP Video Intercom Indoor Station

The CS-FC31X series indoor station features a TFT color HD digital full-capacitive touchscreen, with a luxurious ultra-thin mirror-finish flat-panel design. It supports menu operations, free intra-community household calls, video calls, remote door unlocking, and other functions.



CS-FC312S



CS-FC311S

Features

- 1. 7-inch / 10-inch color LCD display with mirror-finish design.
- 2. Full-screen touch, intercom calls between households.
- 3. Supports query of residential community personal or public information, and visitor image capture; video monitoring, video calls, and remote door unlocking.
- 4. Capable of monitoring IP cameras.
- 5. Can function as a smart home scenario switch.
- 6. Features one-touch elevator call and management center call functionality.
- 7. Compatible with villa entrance stations.
- 8. Supports connecting multiple indoor subsidiary stations within a single unit.
- 9. Security alarm function with support for up to 8 defence zones.
- 10. POE RJ45 Ethernet interface.
- 11. Compatible with doorbell button connection.

Model	CS-FC312S		CS-FC311S
Display	10-inch display, 1024*600 resolution		7-inch display, 1024*600 resolution
Alarm Zones	8 zones		
Operating System	Linux OS		
Communication Method	TCP/IP		
Do Not Disturb (DND) Mode	Supported		
Operating Voltage/Current	DC 12-24V, <700mA, supports PoE power supply		
Operating Temperature	-10~50°C		
Dimensions	272 × 180 × 22 mm		190 × 122 × 16 mm
Installation Method	Wall-mounted installation		

Standard Card Reader

Features

- 1. Comply with ISO14443A standard, operating frequency: 13.56MHZ.
- 2. Provide wiegand 26 bit, wiegand 34 bit output.
- 3. Can be connected with other manufacturers' access control controllers.
- 4. Advanced key management system to ensure data security.
- 5. Can be specified to read any sector of the mifare card, you can also read the card's factory number.
- 6. With data reading and writing functions.
- 7. Data transmission rate: 9600 bps, 2400bps.
- 8. Card reading distance: 7~10cm.
- 9. Two-colour LED bar indicator, a fixed buzzer.
- 11.Read and write card times greater than 100,000 times.



SRX310RS

Features

- 1. Conforms to ISO14443A standard, operating frequency: 13.56MHZ
- 2. Classic appearance design, maintain harmony with modern architecture.
- 3. Conforms to European/Asian electrical installation specifications, can be easily installed in a standard 86 bottom box.
- 4. Provide Wiegand 26 Bit and Wiegand 34 bit outputs.
- 5. Can be connected with other manufacturers' access controllers.
- 6. Advanced key management system to ensure the security of the data.
- 7. Can be specified to read any sector of the mifare card, you can also read the card's factory number.
- 8. Data reading and writing function.
- 9. Data transmission rate: 9600 bps, 2400bps.
- 10. Card reading distance: 7~10cm.
- 11 Two-colour LED bar indicator, a fixed buzzer.
- 12.Read and write time: ≤ 3ms/Byte.
- 13.Read and write card times greater than 100,000 times.



SRX310KP

Model	Standard card reader SRX310RS	Keyboard card reader SRX310KP
Operating Voltage	DC12V	
Operating Current	80~90mA	
Temperature Range	-20°C~+75°C	
Humidity Range	10%-90%	
Supported Cards	bank card, NFC , IC card	
Output Format	WIEGAND26. WIEGAND34	
Material	ABS	ABS
Color	Silver and black	
Password Keys	/	12 password keys
Weight	120g	
Dimensions	87x87x23mm	

Exit Button

Features

- 1. Standard structure; fireproof material mixed resin.
- 2. Applicable Type: For hollow door frame and buried electrical box use.
- 3. Panel Finish: Fireproof Material Glossy Finish.



825



827

Model	825 / 827
Size	86x86mm
Product Weight	0.13kg
Product Color	White / Silver
Product Material	ABS / SUS304
Output Signal	Switch signal
Durability Test	100,000 times aging test passed
Installation Method	Concealed installation, dig a hole in the wall or embed 86 bottom box

IT02 Pro / 826

Features

- 1. Dual-colour LED indicator, waterproof and dustproof, ultra-sensitive sensor.
- 2. Sensor adopts imported chip, anti-interference, longer service life.
- 3. Backlight colour can be customized, three colours are available (red, blue, purple).



IT02 Pro



826

Model	IT02 Pro / 826
Size	100x86x8.6mm / 86x86x15mm
Input Voltage	DC12V
Working Current	50mA
Product Weight	100g
Temperature Range	-20℃~+75℃
Button Mode	Infrared sensor
Installation Method	Any wall

QR Code Reader

The product integrates QR code generation and recognition, smart card technology, communication technology, and data encryption/decryption technologies into a single system. Designed primarily for security and access control, it enables a seamless upgrade of traditional card-based systems to mobile QR code access control by simply replacing or adding this dynamic QR code reader.

Features

1. This reader utilizes dynamic QR codes (configurable for validity period and usage count) to prevent copying and unauthorized photography.
2. It features standard Wiegand 26/34 output for direct compatibility with Wiegand-based access control controllers.
3. After enabling the WeChat mini program on the user's mobile device, a unique ID card number (8-digit) is automatically generated. The access QR code created by the WeChat mini program is time-sensitive, usage-limited, and encrypted. If the QR code expires or exceeds the usage limit, the reader will not output any signal and will emit a buzzer alert.
4. With the same WeChat mini program, the ID card number output by the card reader remains unchanged regardless of QR code variations. Only a single authorization is required in the access control software (the ID number remains consistent even when the code changes).
5. Supports multiple authentication methods including QR codes, IC cards, mobile NFC, and ID cards.
6. The QR code reader utilizes hardware-based recognition, requiring no internet connection, Wi-Fi, or data SIM card. The system operates offline once the mini program is successfully followed, and remains fully functional without network dependency.



QRCR400

Model	QRCR400
Operating Power	DC12V
Operating Current	< 200mA
Communication	Standard with TTL, RS485, WIEGAND 26/34
Temperature Range	-40°C~+80°C
Humidity Range	0~95%(non-condensing)
Reading Method	CMOS
Reading Distance	3~10cm(0~2.5cm is a blind spot; the QR code must be more than 3 cm away from the lens)
Reading Angle	360 degrees
Reading Accuracy	≥ 5 mil
Recognition Time	< 100 ms
Dimensions	86 × 86 × 21 mm
Supported Cards/Types	QR Code, Mifare One (IC Card), Mobile NFC, 2nd Generation ID Card Serial Number, Chip Bank Card
Material	Plastic Frame

Wireless Fingerprint Lock Series

Fingerprint Lock

The glass door smart locks have stylish design, which are perfectly combined with the glass door, not only enhancing the aesthetics of the door, but also increasing the sense of technology. The locks are made of high-quality materials with good anti-theft performance.

Features

- 1. Easy to be installed and use.
- 2. Grade C anti-theft lock cylinder, high anti-theft coefficient.
- 3. Convenient, quick and multiple unlocking methods, such as,fingerprint, password, smart door card.
- 4. Equipped with APP, users can be added or deleted easily through APP.



CS-ZWS01



CS-ZWS02



CS-ZWS03

Model	CS-ZWS01 Fingerprint Lock	CS-ZWS02 Fingerprint Lock	CS-ZWS03 Fingerprint Lock
Screen	With screen	With screen	Without screen
Material	PVC housings	PVC housings	PVC housings
Fingerprint Capacity	100 pieces	100 pieces	100 pieces
PIN Capacity	1000 sets	1000 sets	1000 sets
Card Capacity	1000 sheets	1000 sheets	1000 sheets
Remote Control Capacity	16 pieces (optional)	16 pieces (optional)	16 pieces (optional)
Power Supply	4*AA batteries	4*AA batteries	4*AA batteries
Emergency Interface	Micro USB interface	Type-C interface	Type-C interface
Bluetooth	Support Hahalock App	Support Hahalock App	Support Hahalock App
Language	Chinese and English switching	Chinese and English switching	Chinese and English switching
Waterproof	Optional waterproof model	Optional waterproof model	Optional waterproof model
Gross Weight	1.26kgs	1kg	1kg
Carton Box Gross Weight	16kg (12 pieces per box)	13kg (12 pieces per box)	13kg (12 pieces per box)
Packaging Dimensions	225*93*205mm	192*185*105mm	192*185*105mmmm
Carton Size	575*23*425mm	585*215*385mmmm	585*215*385mmmm
Door Type	Glass door/framed door/metal door/wooden door	Glass door/framed door/metal door/wooden door	Glass door/framed door/metal door/wooden door
Fingerprint Unlock	yes	yes	yes
Password Unlock	yes	yes	yes
Swipe Card Unlock	yes	yes	yes
Remote Unlock	yes	yes	yes
Applet Unlock	yes	yes	yes
Key Unlock	yes	/	/
Attendance Locking	yes	/	/

Smart Lock Series

Smart lock is a type of lock that integrates electronic technology, mechanical technology, and network technology. It features characteristics such as intelligence, convenience, and enhanced security. It support remote unlocking via APP, fingerprint unlocking, password unlocking, and IC card unlocking. Smart locks are widely used in scenarios such as hotels, apartments, campus dormitories and other.

Features

- 1. Communication Method: Lora
- 2. Support disguised password technology to prevent peeking, allowing random digits before and after the correct password (up to 12 digits) for door opening.
- 3. Authorization Management: The system can control the door lock to delete access permissions such as fingerprints, passwords, and smart cards.
- 4. Support setting permanent, long-term, temporary periodic, one-time, and time-based passwords.
- 5. Support secret key,anti-malicious extraction sleep function (the door lock automatically locks after 5 consecutive incorrect password or fingerprint attempts).
- 6. Support anti-prying alarm function (if the anti-prying switch is triggered, an alarm is activated, and the door lock automatically locks).
- 7. Support low battery alarm prompts (Voltage < 4.8V)
- 8. The door lock is immune to electromagnetic interference or acci preventing unlocking by a black box.



CS-SL206-LR



CS-SL106-LR

Model	CS-SL206-LR		CS-SL106-LR
Unlocking Methods	Fingerprint Recognition/Password/IC Card/Mechanical Key Remote Unlocking via Mobile App/Temporary Password		Password/IC Card/Remote Unlocking via Mobile App Temporary Password /Mechanical Key
Primary Material	Aluminum Alloy		Aluminum Alloy and Glass Panel
Lock Body	Compatible with 6068 National Standard Lock Body		
Lock Cylinder	Grade C Security Cylinder		
Product Dimensions (mm):	390 × 76 × 22 mm		
Product Weight	3.6 kg		
Door Thickness Range	40-120mm		
Power Supply	DC 6V (4 x AA Batteries)		
Key Capacity	100 sets each for Card, Password, and Fingerprint		100 sets each for Card and Password
Battery Life	Over 8 months of normal operation (10,000 lock cycles) with 4 AA alkaline batteries		

Fingerprint Lock Kit

The glass door smart locks have stylish design, which are perfectly combined with the glass door, not only enhancing the aesthetics of the door, but also increasing the sense of technology. The locks are made of high-quality materials with good anti-theft performance.

Features

- 1. Easy to be installed and used.
- 2. Grade C anti-theft lock cylinder, high anti-theft coefficient.
- 3. Convenient, quick and multiple unlocking methods, such as,fingerprint, password, smart door card.
- 4. Equipped with APP, users can be added or deleted easily through APP.



Model	CS-ZWSD2 Fingerprint Lock Kit		
Type	Access control machine	Lock	Keyboard machine
Power Supply	3.7V lithium battery or AAA 1.5V*3	AA1.5V*3	3VAAA battery*2
Operating Curent	150mA	200mA	≤50mA
Static Current	150uA	150uA	≤25uA
Unlocking Method	Password / Fingerprint / IC card / Bluetooth / Remote control	/	Password / IC card / Remote control
Password/Fingerprint/Card Capacity	Password: 200 groups / Fingerprint: 100 groups / IC card: 200 sets	/	/

Turnstile Series

Smart Wing Brake

Features

- 1. Trespassing alarm, tailing alarm.
- 2. Reversal processing, gate anti-pinch, free pass setting.
- 3. Single or multiple passers, peak pass mode, emergency pass mode.
- 4. Control board can be set to voice announcement.



CSYZ7801

Model	CSYZ7801
Overall Dimension	1500 x 280 x 990 mm (L*W*H)
Box Material	SUS304 stainless steel/top cover thickness:1.2mm
Channel Width	550mm
Drive Motor	DC24V brushless motor
Infrared Quantity	4 Pairs

Smart Swing Gate

Features

- 1. Small footprint, easy to install, suitable for the location of small areas.
- 2. Fault self-test and alarm function.
- 3. Card reading with / without memory function can be set.
- 4. Automatic reset: it automatically resets if pedestrians do not pass in the specified time.



CSBZ7802

Model	CSBZ7802
Overall Dimension	1500 x 150 x 990 mm (L*W*H)
Box Material	SUS304 stainless steel/thickness of waist cover:1.2mm
Channel Width	550-1100mm
Drive Motor	DC24V Brushless motor
Infrared Quantity	4 Pairs



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