



PRODUCT CATALOGUE

BIOMETRICS & COMPUTER VISION



Your trusted partner in innovation

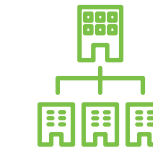
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ZKTECO

Your trusted partner in innovation

ZKTECO CO., LTD. (ZKTeco) (301330: CN Shenzhen Stock Exchange) is an internationally renowned enterprise which specializes in pioneering biometric authentication techniques, and provides products and solutions of smart entrance management, smart identity authentication and smart office, it concurrently and actively develops smart cloud retails services to offer digitalized products and services on all fronts to public - service, enterprise - level and personal users.



89

Global Branches
and Subsidiaries



100+

Business covers
countries and regions



4

Each of R&D and
Manufacturing Centers



4,100

Global
Employees



1,100

R&D Staffs



TOP 14

Top 50 Global Security
Companies 2023 (A&S Magazine)

ZKTeco

Accreditations



Quality Assurance
Management



Occupational Health And
Safety Management



Environmental
Management



IT Service
Management



Information Security
Management



Information Security
Management



Information Security
Management



Software Development
Maturity

ZKBio CVSecurity

Green Protection: Safeguarding with Sustainability

ZKBio CVSecurity provides a comprehensive web-based security platform with the adoption of hybrid biometric and computer vision technology. It contains multiple modules: Personnel, Time & Attendance, Access Control, Video Intercom, Visitor Management, Parking, Elevator Control, FaceKiosk, Smart Video Surveillance, Online / Offline Consumption, Guard Patrol, Locker Management, Intrusion Alarm, Service Center, and other smart sub-system.

The platform adopts micro-service development framework with robust system performance characteristics, such as high availability, scalable modules, fully secure communication, and solid third-party integration scalability.

By taking full advantage of our extensive experience in the access control industry, ZKTeco integrates video surveillance and smart analysis to study real-time video content and collect meta data to create an effective early warning system and issue a prompt response. So that ZKBio CVSecurity offers a precise verification after the incident, establishing a practical security ecosystem. The system ensures safety protection for people, vehicles and properties.



Space Security Management Solution

Solution Advantages

- **Increase Event Efficiency**

Simplify the space booking process and reduce vacancy rates.

- **Enhance Event Experience**

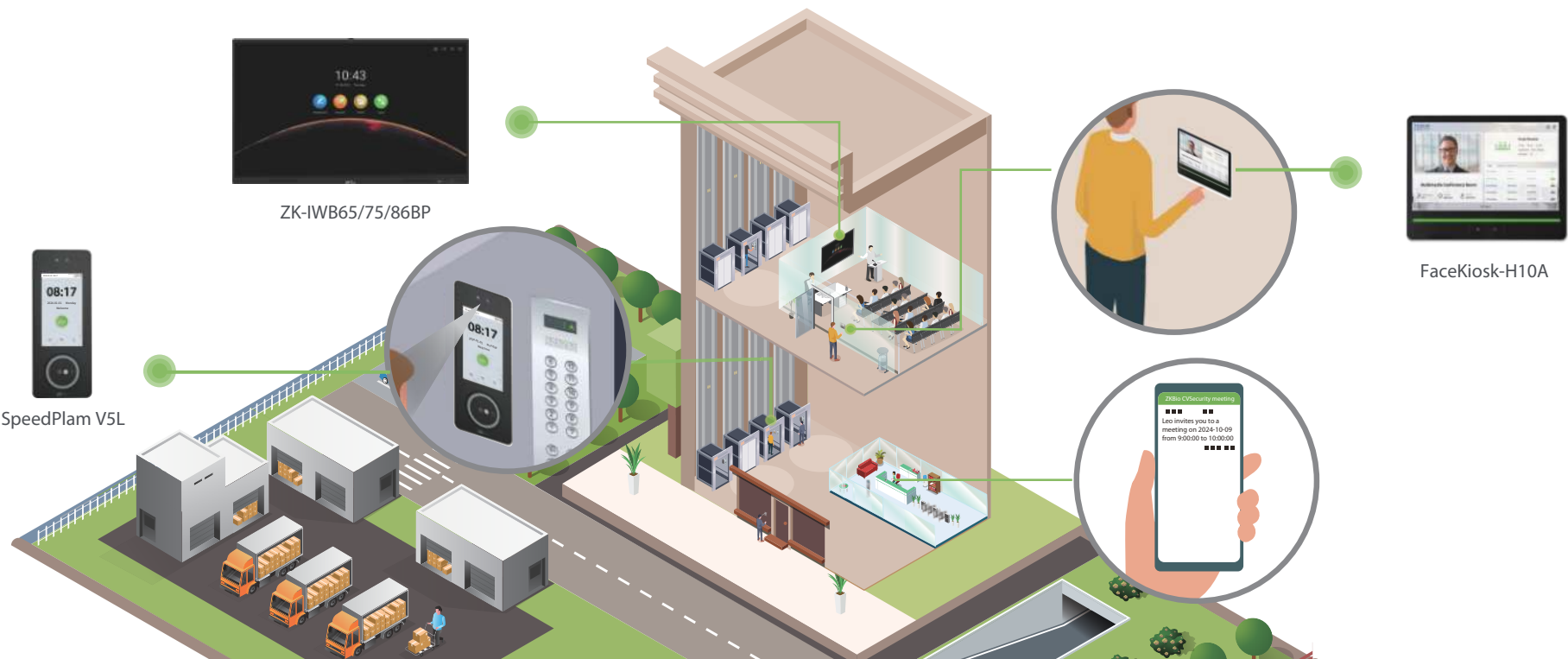
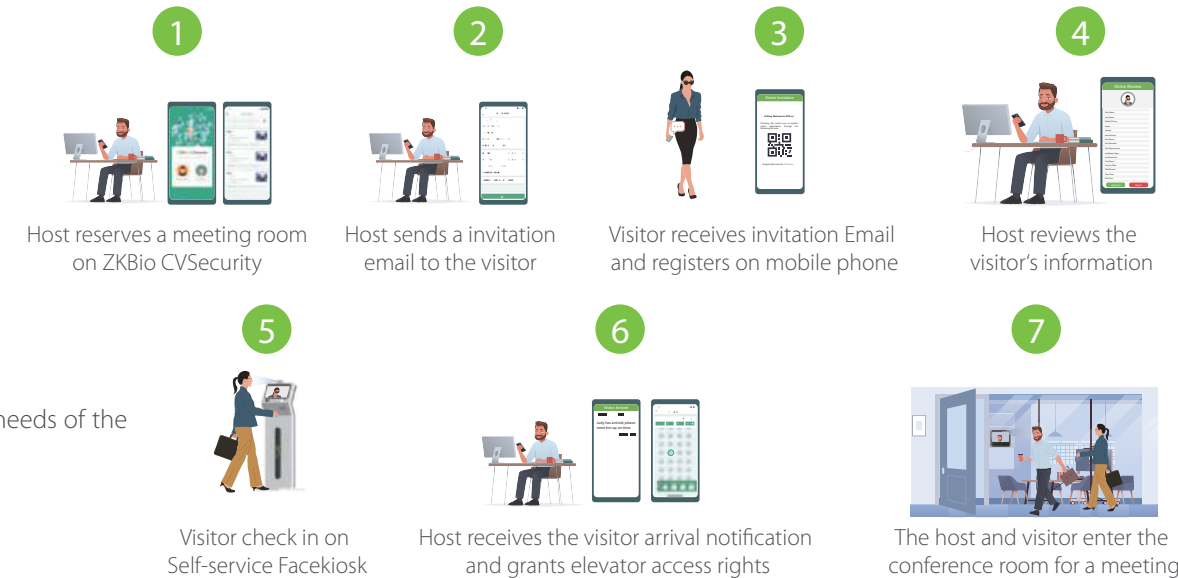
Integrate advanced audiovisual equipment and collaboration tools.

- **Smart Environment**

Automatically adjust lighting, temperature, and sound to meet the needs of the event venue.

- **Data Analysis**

Use data to optimize resource allocation and event planning.



Apartment Security Management Solution

Solution Highlights

- **Lightweight Security Platform**

- **Video Intercom Capabilities**

(a) A complete solution makes communication smoother

Supports call from SIP Servers to software systems, from smart apps to high-end devices.

(b) One-stop security management & All-round security guarantee

(c) Low cost communication

Communication through the Internet, avoiding the high cost of long-distance calls. It also supports various communication modes such as voice and video.

(d) Support mutual calls between APP and device, App and PC client, App and App

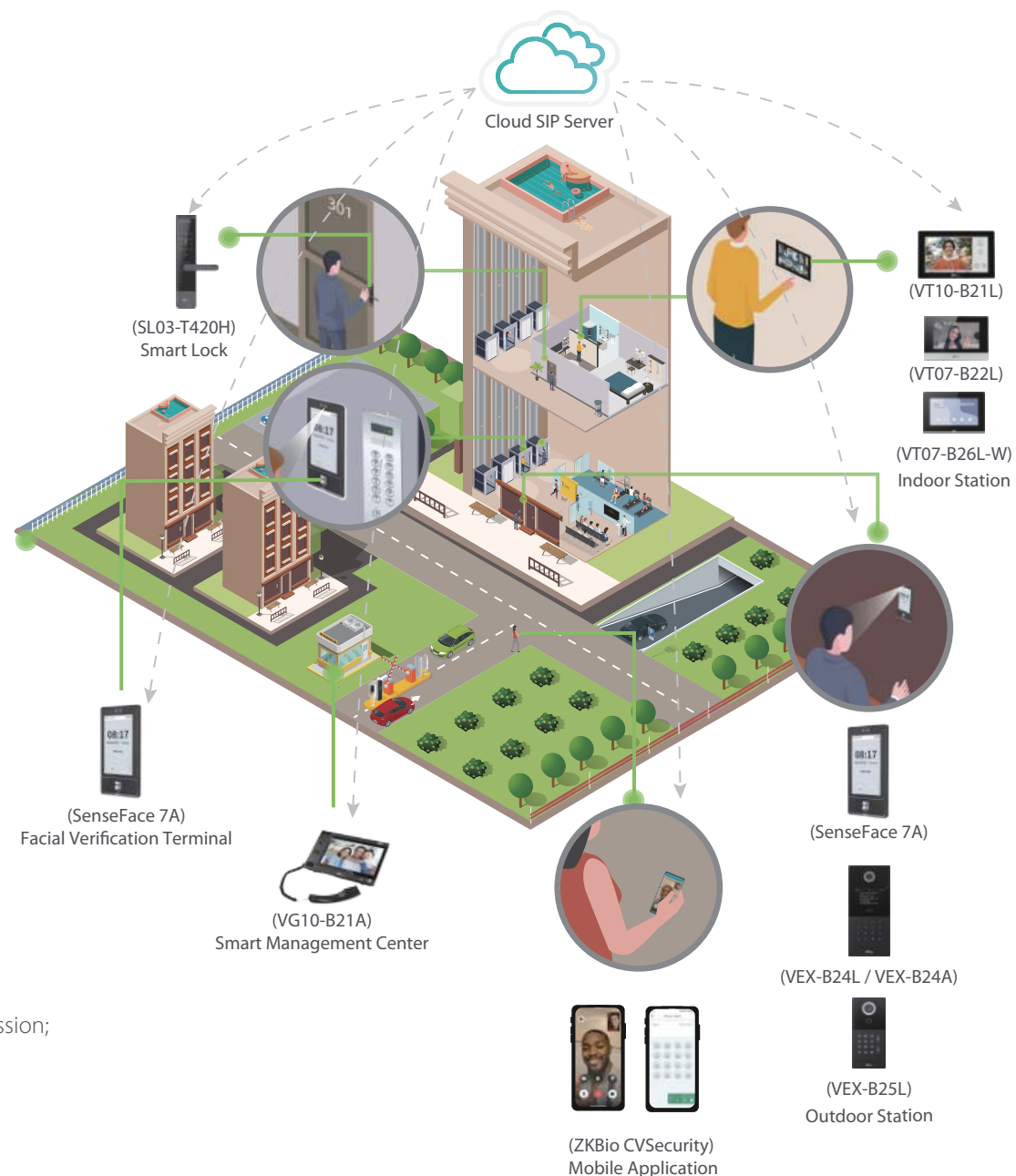
- **Smart Lock**

(a) Supports multiple verification methods: Password / IC Card / QR code (coming soon);

(b) Supports wireless communication technology to remotely deliver residents' access permissions;

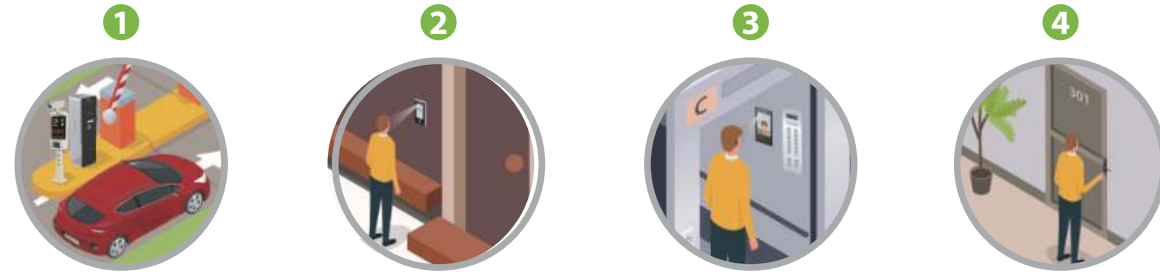
(c) Support flexible validity time management of residents' access permission;

(d) Supports real-time notification of low battery and tamper alarm.



Procedure

Residents's Procedure



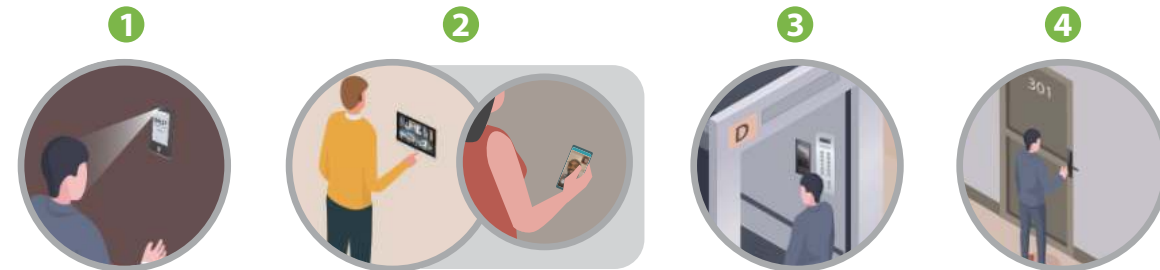
The resident drove up to the gate and entered the apartment after the license plate recognition was successful.

The resident verifies on the access control terminal with facial recognition.

The resident verifies on the access control terminal in elevator, and goes to the destination floor.

The resident arrives at the room and opens the door with password / IC Card / QR Code.

Visitors's Procedure



The Visitor arrived at apartment and call the resident on the access control.

The resident answers the video intercom from the visitor on the indoor station / Mobile App, then opens the door for the visitor, and call the elevator to the relevant floor for the visitor.

The visitor enter in the called elevator.

The visitor arrives at the room door and ring the doorbell on the lock.

ZKBio CVSecurity Mobile APP

New!

Video Intercom

- **Support Video Intercom:**
Support mutual calls between APP and device, App and PC client, App and App;
- **View of call records:**
All call records and missed call records;
- **Video Intercom Contact List:**
Classified view of device, personnel and admin extension numbers;



Smart Park Solution



Facial Payment Station
(ProMerc-300H)



ZKBio Sense PTZ Series
(PM-855PC20N-AD)



ZKBio Sense Series
(BL-852T48D-S6-AD)



ZKBio Sense Series
(BL-852T48D-S6-AD)



ProBG3000 Series
(High Performance Barrier
Gate with High-Speed)



LPRS1000
(License Plate Recognition
Integrated Machine)

Solution Highlights

• Multiple layers of protection to ensure the safety of park personnel and property.

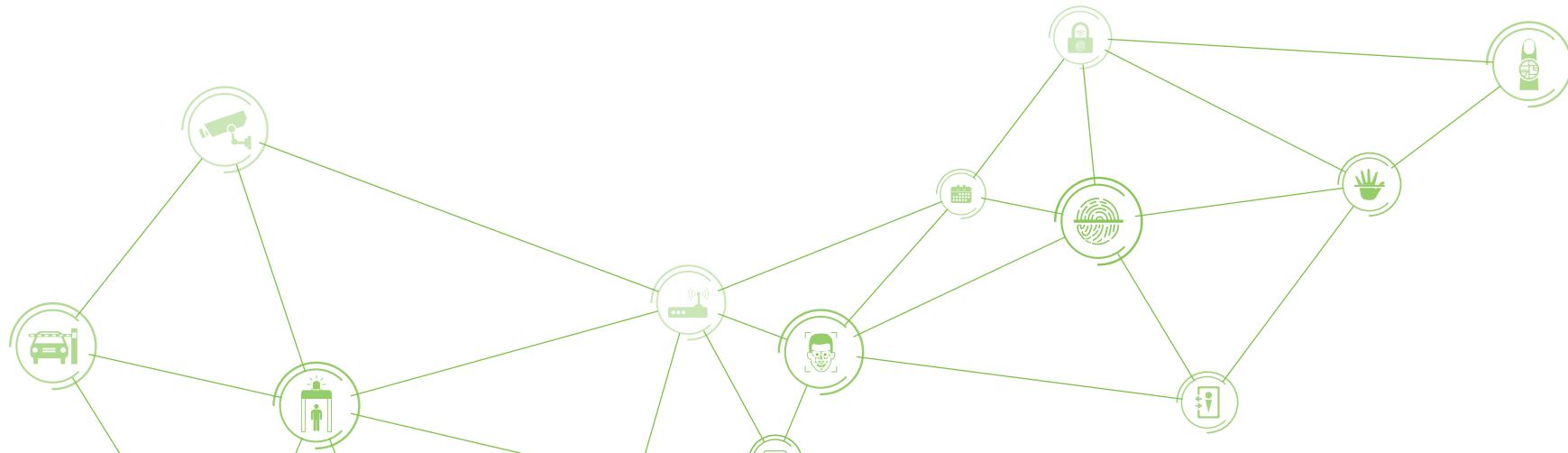
- (a) A multi-tiered security system ensures the safety of people and assets. Key areas such as the main entrance, parking lots, office buildings, elevators, and meeting rooms are equipped with intelligent access control, ensuring a secure environment.
- (b) A tiered access system: Offers customized access permissions for users of different identities, including employees, administrators, VIP guests, and visitors.
- (c) Offer multiple identification and verification methods, including card, facial recognition, palm print, fingerprint, and QR code scanning.

• Intelligent and automated systems to provide a fast and convenient user experience.

- (a) A one-stop management platform for administrators integrates sub-systems for unified management, including visual monitoring, automatic alerts, data reporting, and message pushing, significantly improving management efficiency.
- (b) Security personnel and guards benefit from comprehensive video surveillance and boundary protection, enabling online patrols and automatic intrusion alarms.
- (c) Employees and visitors enjoy quick identity verification, online appointment scheduling, automatic elevator calling, and facial recognition payment.

• Utilization of clean energy in the park, energy consumption control, and provision of enviromentally friendly solutions.

- (a) The energy consumption monitoring system provides real-time visual data and offers suggestions for optimizing building energy consumption, aiding in energy saving and emission reduction.
- (b) Achieve high integration of campus management information, promoting paperless operations, automatically recording data such as attendance, access control, parking, etc., reducing the use of paper and cash.
- (c) Integration with third-party DCS systems enables intelligent elevator dispatching, reducing unnecessary stops, effectively reducing energy consumption.



Intelligent Locker Solution

Solution Introduction

ZKTeco's intelligent locker solution offers a digital and customized services that powered by ZKBio CVSecurity for an enhanced secure storage. This intelligent locker solution is ideal for various scenarios such as factories, supermarkets and office buildings.

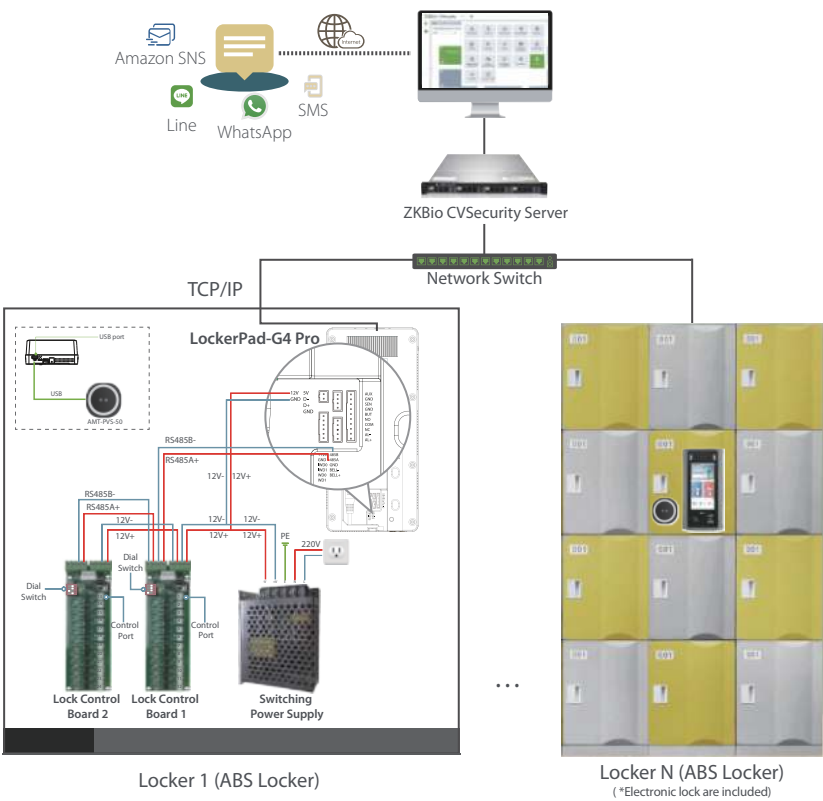
Key Features

- Composition: Consists of LockerPad-G4 Pro, lock control board, and storage cabinet made of ABS material.
- Cabinet features: Made of high-quality ABS material, supports multiple custom combination methods.
- Cabinet sizes and colors: Available in 4 sizes and 12 colors to choose from.
- Recognition methods: Supports various recognition methods, including facial recognition, card recognition, and QR code recognition.
- Operation modes: Supports both offline and online operation modes.
- Software: Can be connected to ZKBio CVSecurity for management.

Applications



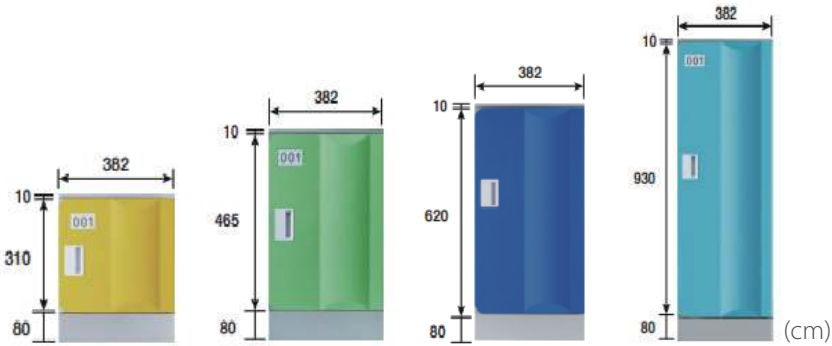
System Topology



Software	ZKBio CVSecurity
LockerPad	LockerPad-G4 Pro * Cabinet Capacity: 96 * Support connection with up to 8 pcs Lock Control Board through RS485 connection
Cabinet	ABS Locker * Available in 4 sizes and 12 colors to choose from * Electronic lock are included
Other	Locker Control Board *1 Locker control Board supports up to 12 Control Ports

Cabinet Size

- Flat Top Plate
- Sleek design, easy for daily cleaning and maintenance
- Soft Corner for Safety
- Effectively Absorbs Impact Energy to Reduce Accidents
- Multiple columns can be freely combined
- You can customize the number of cabinets according to your needs



Cabinet Color

Cabinets have 12 classic colors and can customize colors according to your preferences.



ZKBio CVAccess

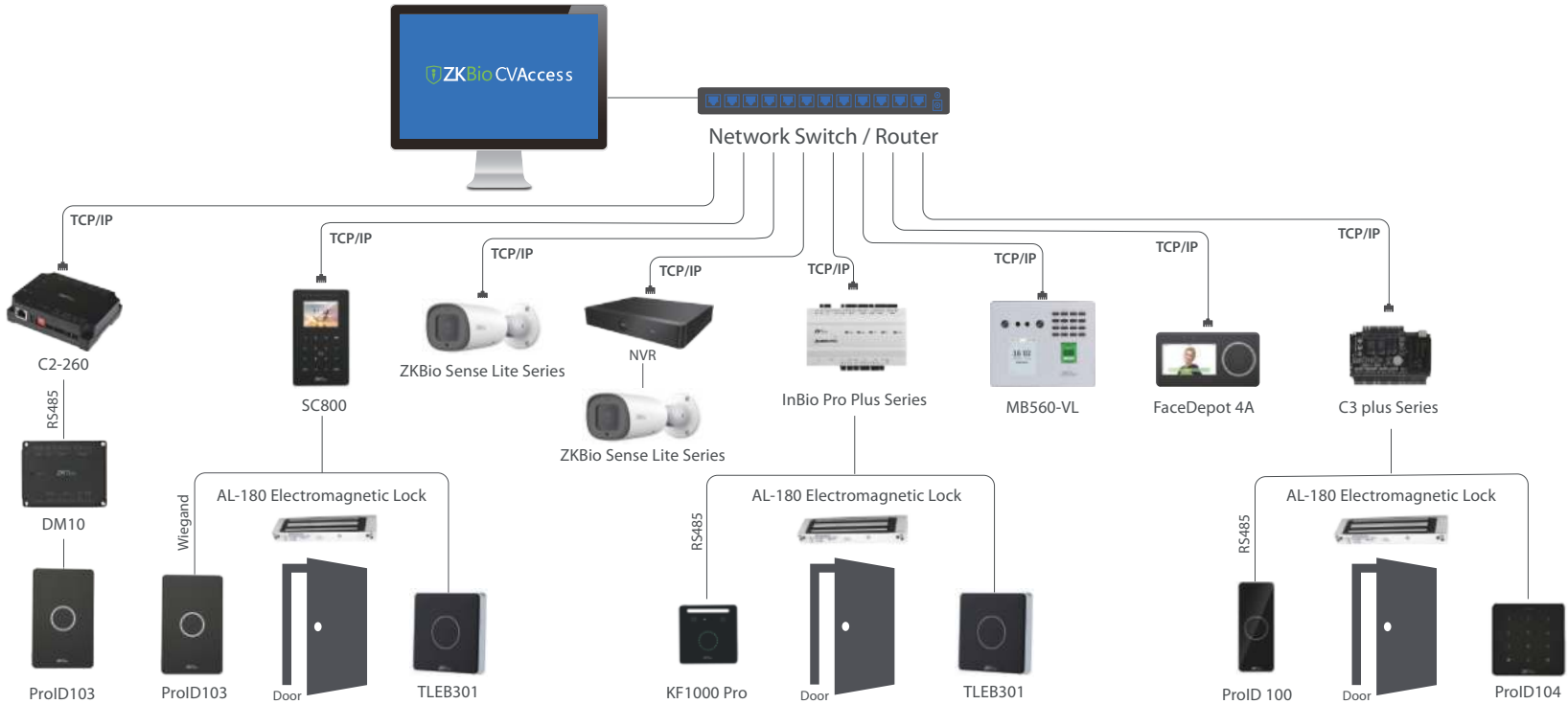
Green Protection: Safeguarding with Sustainability

Introduction

ZKBio CVAccess is a lightweight web-based security platform that utilizes hybrid biometric technology and computer vision technology.

It is designed to support most ZKTeco Hardware and offers a wide range of features to meet the management needs of small to medium-sized businesses: Personnel Management, Access Control, Time & Attendance, Smart Video Surveillance, System Management.

Configuration



Specifications

Function		ZKBio CVAccess	ZKBio CVSecurity	
General				
System	Personnel	√	√	
	Operation Log	√	√	
	Database Management	√	√	
	System Monitoring	√	√	
	Message Notification	Email	Email / WhatsApp / SMS	
	Account and Security	√	√	
	API Authorization	×	√	
	Mobile APP	√	√	
	OCR Scanner	√	√	
	Card Template	√	√	
Map	Active Directory	×	√	
	E-map	√	√	
	GIS Map	×	√	
Event & Alarm Center		×	√	
Application				
Access Control	Access Level	√	√	
	Interlock	√	√	
	Linkage	√	√	
	Anti-passback	√	√	
	First-Person Normally Open	√	√	
	Multi-person Opening	√	√	
	Advanced Functions	Global Interlock	×	√
		Global Anti-Passback	×	√
		Global Linkage	×	√
		Personnel Availability	×	√
		Occupancy Control	×	√
Emergency Muster	×	√		
Time & Attendance	Attendance Rule	√	√	
	Approval Workflow	×	√	
	Shift	√	√	
	User Defined Report	√	√	
Video Surveillance	View / Live View / PTZ Control / Playback	√	√	
	Favorites	√	√	
	Onvif	√	√	
	TV Wall	√	√	
	Intelligent Video Setting	√	√	
	Linkage	√	√	
	Video Patrol	√	√	
	Maintenance	√	√	
Elevator Control & DCS Integration		×	√	
Entrance Control		×	√	
Visitor		×	√	
Parking Management		×	√	
Guard Patrol		×	√	
Consumption		×	√	
Video Intercom		√ (V4.2.0 Supported)	√	
Intrusion Alarm		×	√	
Locker Management		×	√	
Mobile APP		√ (V4.2.0 Supported)	√	



Powerful Web-based Time and Attendance Management Software

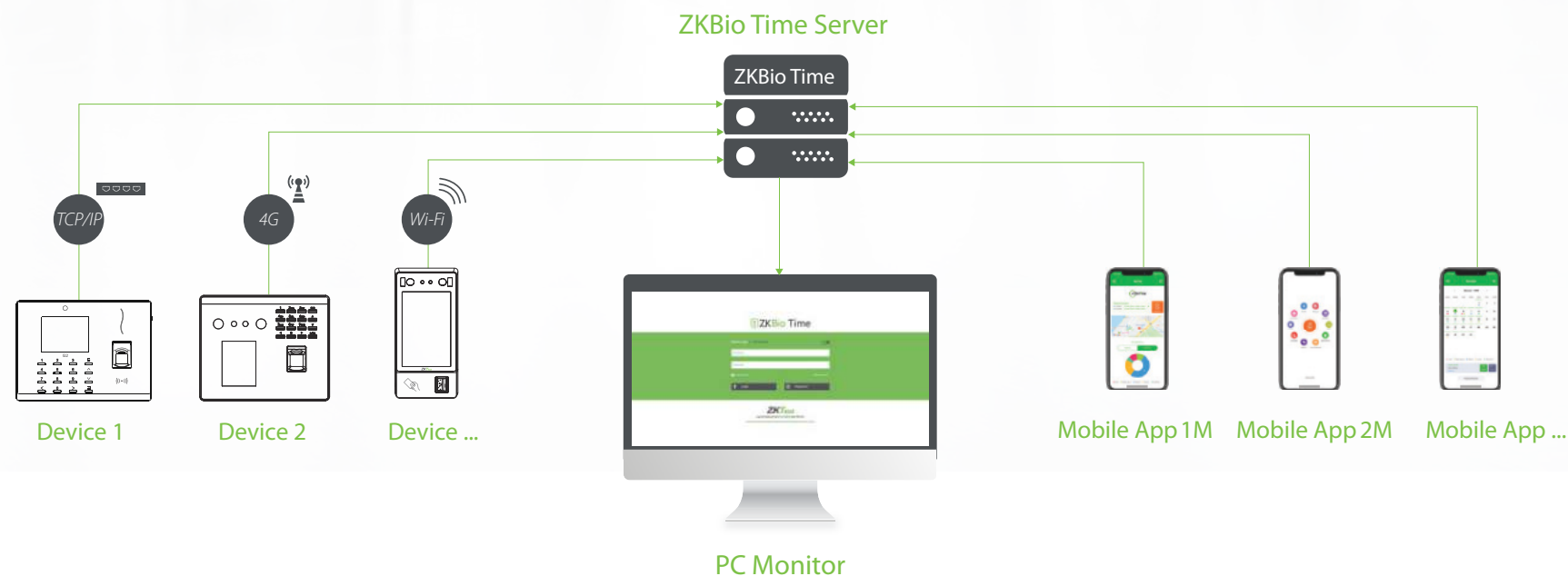
ZKBio Time is a powerful web-based time and attendance management software.

ZKBio Time provides a stable connection to ZKTeco standalone push communication devices with Ethernet / Wi-Fi / GPRS / 3G / 4G. It serves as a private cloud which enables employee self-service with our Mobile App.

Multiple administrators can access ZKBio Time anywhere on the browser. Using the software, administrators could manage hundreds of devices and thousands of employees as well as their transactions with no difficulty.

Users could also easily manage timetables, duty rosters, schedules, attendance report generating on the attentive user interface.

Configuration



Specifications

Software

System Architecture	Web-based Software
Suggested Devices	Standalone Device with Attendance PUSH Protocol & Green Label Series
Authentication Options	Fingerprint / Face / Palm / RFID / Pin
Max. Supported Devices	500 Devices (Please contact us for more information on capacity expansion.)
Database	PostgreSQL(Default), MSSQLServer 2012/2014/2016/2017/2019, MySQL 7.0 or above, Oracle 19c
Supported OS	Windows Server (64-bit only), Windows Server 2012/2012 R2/ 2016/2019/2022, Windows 8/8.1/10/11
Suggested Browsers	Chrome 33+ /IE 11+ /Firefox 27+

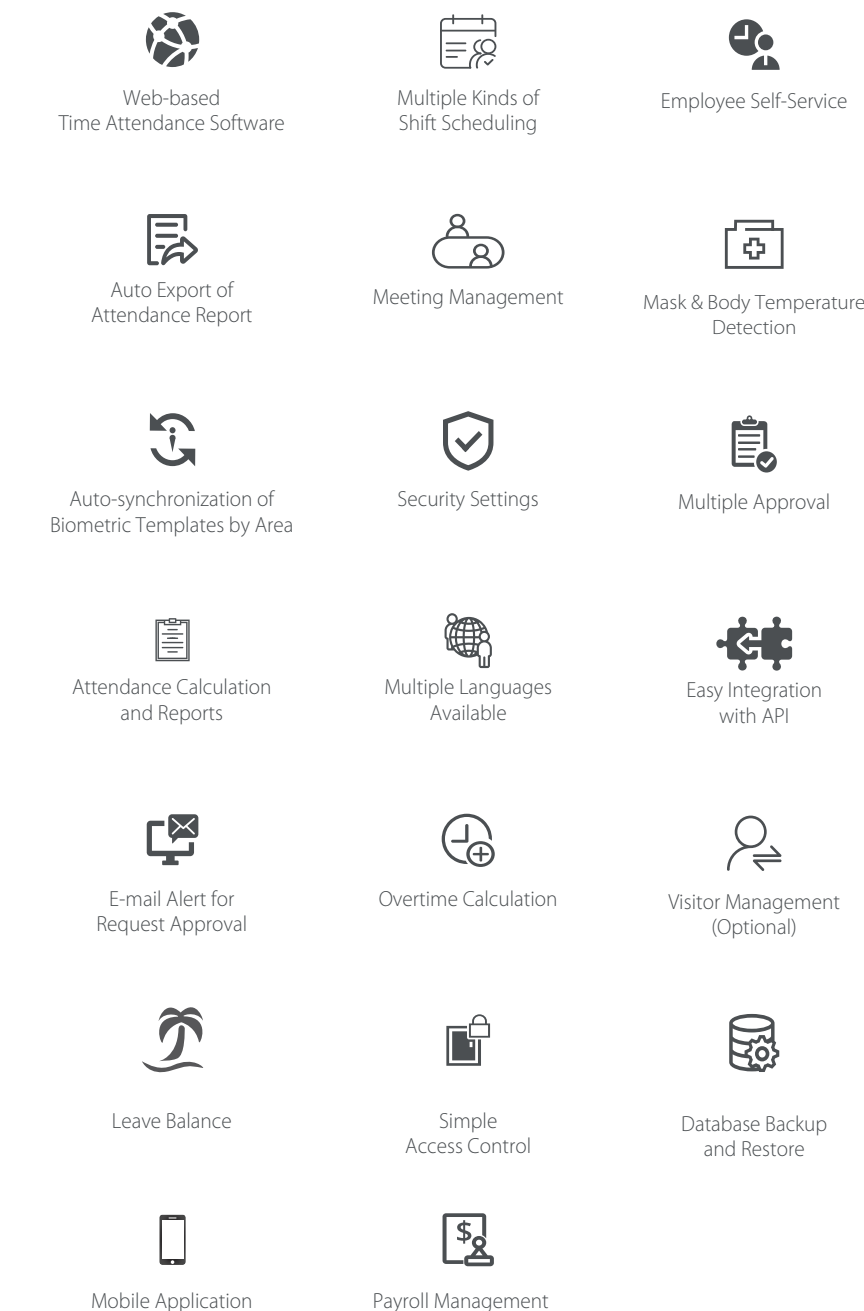
Minimum Server Hardware Requirements

CPU	Dual Core Processor with Speed of 2.4 GHz or faster
RAM	4GB RAM available or above
Storage	100GB available space or above (We recommend using NTFS hard disk partition as the software installation directory.)
Display Resolution	1024 * 768 or above

Certifications

ISO/IEC 27001:2013, ISO/IEC 27701:2019, ISO9001, ISO20000.

Features





Powerful Cloud-Based Time and Attendance Management Platform

BioTime Cloud 2.0 is an innovative cloud-based time and attendance solution, taking usability, remote service, and SMB management to new heights. With AWS services, BioTime Cloud 2.0 offers stable and fast connections for both PC and smart device logins. Mobile services such as remote check-in/out, geo-fencing, T&A performance checking, leave application, and more functions are available on the BioTime Cloud 2.0 app (available on iOS and Android). BioTime Cloud 2.0 promotes advanced and professional T&A functions for all corporations to enhance time and attendance efficiency and improve employee performance.

Features



Web Interface for Time and Attendance



Flexible Schedules and Calendars



Employee Session



Request and Approval Alerts Via Email



Automatic Export of Attendance Reports



Attendance Report Calculation



Schedules by Groups



Real-Time Monitoring



Security Settings



Multiple Approvers



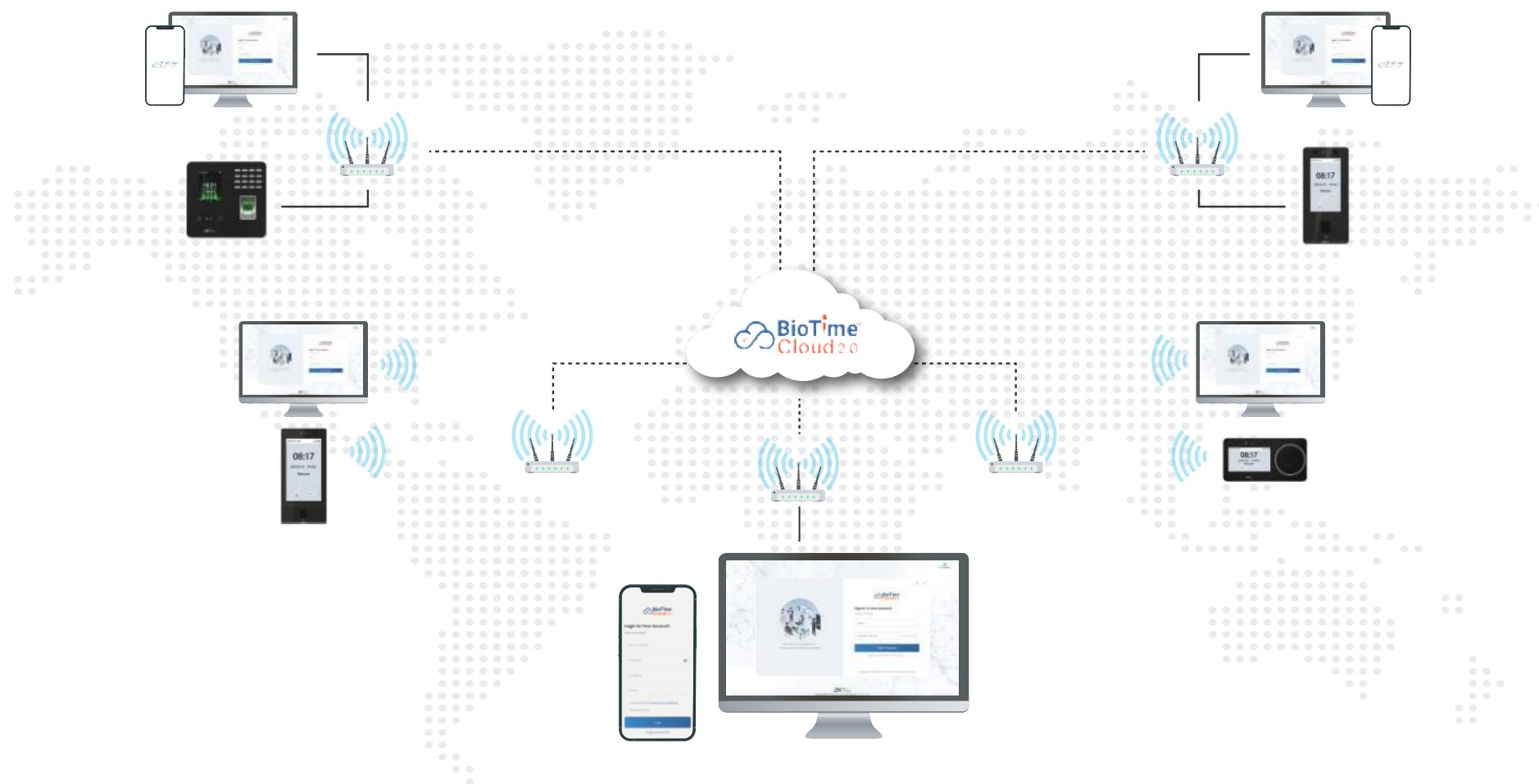
Mobile App



Overtime Report

Powerful Cloud-Based Time and Attendance Management Platform

BioTime Cloud 2.0 is a powerful cloud-based time and attendance management software that provides a stable connection to ZKTeco's standalone push communication devices via Ethernet, Wi-Fi, GPRS, 3G, and LTE, and works as a cloud to offer employee self-service through mobile applications and web browsers. Multiple administrators can access BioTime Cloud 2.0 from anywhere using a web browser. It can easily handle thousands of devices and tens of thousands of employees and their transactions.





Smart Office IoT Cloud Platform for Small and Medium Business

ZKBio Zlink is a cloud-based platform for collaborative office and management, which is designed to provide small and medium-sized business (SMB) a smart, lightweight and highly efficient office application.

ZKBio Zlink is equipped with a modern SaaS (Software as a Service) model and high-end, secure AWS cloud infrastructure. It is a hassle-free solution that saves significant amounts of time and effort.

The comprehensive all-in-one platform is accessible via a web portal and mobile app. Furthermore, the platform will continuously build and offer various segmented scenario applications tailored to users, ensuring businesses remain linked and secure at all times.

Configuration



Features



Lightweight and Cloud-based Deployment



Accessible via Web Portal & Mobile App



Flexible Multi-Site Management



Powerful Scenario Application Center



Precise Roles-based Permissions



Visual Statistics Dashboard

Time Attendance



Normal & Flexible Shift



Multiple Attendance Reports and Exporting



GPS-based Mobile Clocking



Multiple Attendance Approvals



Employee Scheduling and Record Candelar

Access Control



Simplified Access Control Group



One-Click Remote Control



Real-time Status and Events Monitoring



Efficient Search and Troubleshooting

Video Intercom



Two-way-Audio



One-Click Remote Opening



Real-time Video Preview



Real-time Message Notification

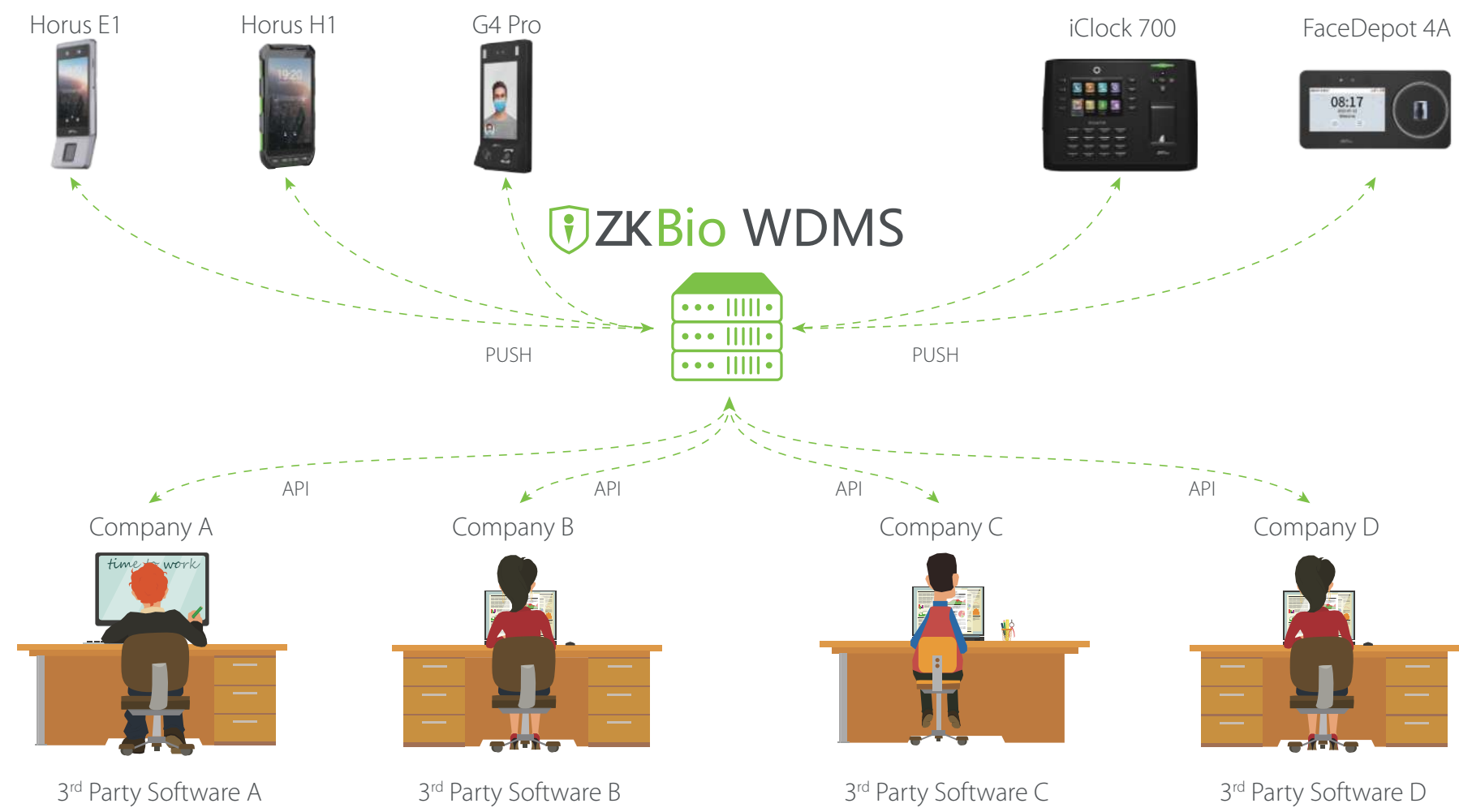
Specifications

Product Category	Product Model
Time Attendance (Best Protocol)	D3, MB10-VL, MB20-VL, MB560-VL, EFace10, ZL1, ZL2
Access Control (Best Protocol)	SenseFace Series, SpeedFace-V3L Series, SpeedFace-V4L, SpeedFace-V4LM1, SpeedFace-V4L Pro, SpeedFace-V5L, SpeedFace-V5L[QR], SpeedFace-V5L-RFID, MiniAC, MiniAC Plus, SmartAC1, SmartAC1[QR], SpeedFace-V3L (Lite)

Powerful Web-based Data Master System Middleware

ZKBio WDMS is Web-based Data Master System, which is a middleware.
As a middleware, ZKBio WDMS allows you to deploy on servers and databases for devices and transactions management.
Administrators can access ZKBio WDMS anywhere on a browser or a third-party software by API to handle thousands of devices.
The Mask & Temperature Detection (MTD) module records data about body temperature and mask detection taken for each employee entering the controlled area.
The system automatically imports personnel information through user's simple configuration.

Configuration



Features

- Use USB 2.0 to Import and Export Employee Information
- Custom Attribute
- Auto Import of Personnel Information
- Managing Multiple Companies
- Personnel Management
- Device Communication Settings
- Biometric Template Management
- Export Encryption
- Transaction Auto Export
- Database Backup & Restore
- Email Settings
- Login and Password Security Settings

Specifications

Software	
System Architecture	Server or Browser
Suggested Devices	Standalone Device with Attendance PUSH Protocol & Green Label Series
Device Capacity	500 devices in a single server (Please contact us for more information on capacity expansion.)
Database	PostgreSQL(Default), MSSQL Server 2012/2014/2016/2017/2019, MySQL 5.0/5.6/5.7 or above, Oracle 19c
Supported OS	(64-bit only) Windows 7/8/8.1/10/11, Windows Server 2012/2012R2/2016/2019/2022
Suggested Browsers	Chrome 33+ /IE 11+ /Firefox 27+
Monitor Resolution	1024 * 768 or above
Hardware	
CPU	Dual Core Processor with speeds of 2.4 GHz or faster
RAM	4GB RAM available or above
Storage	100GB available space or above (We recommend using NTFS hard disk partition as the software installation directory.)



Time & Attendance and Access Control Systems

ZKTeco’s Access Control Product line is comprised of IP-based standalone access control device, networked access control panel, readers, guard patrol and accessories with network-based one-stop access control and T&A software. Thus, ZKTeco provides one-stop R&D and manufacturing services for business partners.



Standalone Terminal

Smart AC Terminal Series for Small Business



SenseFace Series

SIP-Ready Multi-Biometric Access Control Terminal with Video Intercom Capability



Support Standard SIP Protocol for Video Intercom



Multiple Credential Options (Face/ Fingerprint/ RFID/ QR Code/ Pincode)



Water and Dust Proof Reached Up to IP65



Multiple Size Options (4 Models)



Support USB2.0 for Offline Communication



Support BEST / PUSH Dual Communication Protocol(Configurable)



Wi-Fi Compatible



Supports Zlink for Cloud-based Access Control and Time & Attendance Management



Onboard RF Chips (433MHz) for Wireless Door Lock Usage



Competitive Pricing





Model	SenseFace 2A	SenseFace 3A	SenseFace 3B	SenseFace 4A	SenseFace 4B	SenseFace 7A	SenseFace 7B
Appearance							
Display	2.4"@TFT Color LCD Screen (720 * 1280)	2.8"@TFT Color Touch LED Screen (240 * 320)		4.3"@TFT Color Touch LED Screen (272 * 480)		7"@TFT Color Touch LED Screen (600 * 1024)	
Camera	WDR Binocular Camera @ 1MP	WDR Binocular Camera @ 1MP		WDR Binocular Camera @ 1MP		WDR Binocular Camera @ 1MP	
Operation System	Linux	Linux		Linux		Linux	
Hardware	CPU: Dual Core@1GHz RAM: 512MB; ROM: 8GB; Speaker: 8ohm @1W Microphone: * 1 (Sensitivity: -32 dB / Omni-directional / Signal-to-Noise Ratio: -32 dB / Impedance: 2.2kΩ) Supplement Light: Yes Physical Keypad: 17 Keys Fingerprint Sensor: ZK Optical Sensor	CPU: Dual Core@1GHz RAM: 512MB; ROM: 8GB Speaker: 8ohm @1W Microphone: * 1 (Sensitivity: -42 dB / Omni-directional / Signal-to-Noise Ratio: 58 dB / Impedance: 2.2kΩ) Supplement Light: No		CPU: Dual Core@1GHz RAM: 512MB; ROM: 8GB Speaker: 8ohm @1W Microphone: * 1 (Sensitivity: -42 dB / Omni-directional / Signal-to-Noise Ratio: 58 dB / Impedance: 2.2kΩ) Supplement Light: No		CPU: Dual Core@1GHz RAM: 512MB; ROM: 8GB Speaker: 8 ohm@1 W Microphone: * 1 (Sensitivity: -32dB / Omni-directional / Signal-to-Noise Ratio: -32dB / Impedance: 2.2kΩ) Supplement Light: No	
		Fingerprint Sensor: In-Glass Fingerprint (Z-ID)	/	Fingerprint Sensor: In-Glass Fingerprint (Z-ID)	/	Fingerprint Sensor: In-Glass Fingerprint (Z-ID)	/
Authentication method	Fingerprint / Face / Card / Password (Physical Keypad)	Fingerprint / Face / Card / Password (Virtual Keypad)	Face / Card / Password (Virtual Keypad)	Fingerprint / Face / Card / Password (Virtual Keypad)	Face / Card / Password (Virtual Keypad)	Fingerprint / Face / Card / Password (Virtual Keypad)	Face / Card / Password (Virtual Keypad)
User Capacity	3,000 (1:N) (Standard)	6,000 (1:N) (Standard)		8,000 (1:N) (Standard)		50,000 (1:N) (Standard)	
Fingerprint Template Capacity	3,000 (1:N) (Standard)	6,000 (1:N) (Standard)	/	8,000 (1:N) (Standard)	/	10,000 (1:N) (Standard)	/
Face Template Capacity	1,500 (1:N) (Standard)	3,000 (1:N) (Standard)		6,000 (1:N) (Standard)		10,000 (1:N) (Standard)	
Card Capacity	3,000 (1:N) (Standard)	6,000 (1:N) (Standard)		8,000 (1:N) (Standard)		50,000 (1:N) (Standard)	
Transaction Capacity	150,000 (1:N) (Standard)	150,000 (1:N) (Standard)		200,000 (1:N) (Standard)		300,000 (1:N)	
Max. User Password Length	8 Digits	8 Digits		8 Digits		8 Digits	
Biometric Verification Speed	less than 0.5 sec (Fingerprint) less than 0.35 sec (Facial Authentication)	less than 0.5 sec (Fingerprint) less than 0.35 sec (Facial Authentication)	less than 0.35 sec (Facial Authentication)	less than 0.5 sec (Fingerprint) less than 0.35 sec (Facial Authentication)	less than 0.35 sec (Facial Authentication)	less than 0.5 sec (Fingerprint) less than 0.35 sec (Facial Authentication)	less than 0.35 sec (Facial Authentication)
Touchless Biometric Recognition Distance	30cm to 200cm (Facial Authentication)	30cm to 200cm (Facial Authentication)		30cm to 200cm (Facial Authentication)		30cm to 200cm (Facial Authentication)	
False Acceptance Rate (FAR) %	FAR ≤ 0.01% (Visible Light Facial Authentication) FAR ≤ 0.0001% (Fingerprint)	FAR ≤ 0.01% (Visible Light Facial Authentication) FAR ≤ 0.0001% (Fingerprint)	FAR ≤ 0.01% (Visible Light Facial Authentication)	FAR ≤ 0.01% (Visible Light Facial Authentication) FAR ≤ 0.0001% (Fingerprint)	FAR ≤ 0.01% (Visible Light Facial Authentication)	FAR ≤ 0.01% (Visible Light Facial Authentication) FAR ≤ 0.0001% (Fingerprint)	FAR ≤ 0.01% (Visible Light Facial Authentication)
False Rejection Rate (FRR) %	FRR ≤ 0.02% (Visible Light Facial Authentication) FRR ≤ 0.01% (Fingerprint)	FRR ≤ 0.02% (Visible Light Facial Authentication) FRR ≤ 0.01% (Fingerprint)	FRR ≤ 0.02% (Visible Light Facial Authentication)	FRR ≤ 0.02% (Visible Light Facial Authentication) FRR ≤ 0.01% (Fingerprint)	FRR ≤ 0.02% (Visible Light Facial Authentication)	FRR ≤ 0.02% (Visible Light Facial Authentication) FRR ≤ 0.01% (Fingerprint)	FRR ≤ 0.02% (Visible Light Facial Authentication)

Model	SenseFace 2A	SenseFace 3A	SenseFace 3B	SenseFace 4A	SenseFace 4B	SenseFace 7A	SenseFace 7B
Biometric Algorithm	ZKFace V4.0 ZKFingerprint V13.0 (Standard) / V10.0 (Optional)	ZKFace V4.0 ZKFingerprint V13.0 (Standard) / V10.0 (Optional)	ZKFace V4.0	ZKFace V4.0 ZKFingerprint V13.0 (Standard) / V10.0 (Optional)	ZKFace V4.0	ZKFace V4.0 ZKFingerprint V13.0 (Standard) / V10.0 (Optional)	ZKFace V4.0
Card Type	ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional)	ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional)		ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional)		ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional)	
Communication	TCP/IP * 1 Wi-Fi (IEEE802.11a/b/g/n/ac) @ 2.4 GHz (Optional) USB: Type A (USB Drive Only) * 1 Electric Lock * 1, Door Sensor * 1, Exit Button * 1	TCP/IP * 1 Wi-Fi (IEEE802.11b/g/n/ax) @ 2.4 GHz (Optional) Wiegand (Input or Output) * 1 RS485: ZKTeco RS485 * 1 USB: Type A (USB Drive Only) * 1 Aux Inputs * 1, Electric Lock * 1, Door Sensor * 1, Exit Button * 1, 12V Output * 1		TCP/IP * 1 Wi-Fi (IEEE802.11b/g/n/ax) @ 2.4 GHz (Optional) Wiegand (Input or Output) * 1 RS485: ZKTeco RS485 * 1 USB: Type A (USB Drive Only) * 1 Aux Inputs * 1, Electric Lock * 1, Door Sensor * 1, Exit Button * 1, 12V Output * 1		TCP/IP * 1 Wi-Fi (IEEE802.11b/g/n/ax) @ 2.4 GHz (Optional) Wiegand (Input or Output) * 1 RS485: ZKTeco RS485 * 1 USB: Type A (USB Drive Only) * 1 Aux Inputs * 1, Electric Lock * 1, Door Sensor * 1, Exit Button * 1, 12V Output * 1	
Standard Functions	ADMS, DST, Photo Capture, Event Photo Capture, Up to 14-digit User ID, Access Levels, Groups, Holidays, Record Query, Schedule Bell, Tamper Switch Alarm, Automatic Status Switch, Multiple Authentication Methods, SIP Client (Version 2.0), ONVIF (Compatible with Profile S, Profile T, Profile G, Profile C, Profile Q & Profile A), AC Push and TA Push Protocol Switch, HTTPs / SSH Backend Access, T9 Keyboard (Input)	ADMS, DST, Photo Capture, Event Photo Capture, Up to 14-digit User ID, Access Levels, Groups, Holidays, Anti-Passback, Record Query, Schedule Bell, Tamper Switch Alarm, Automatic Status Switch, Multiple AuthenticationMethods, SIP Client (Version 2.0), ONVIF (Compatible with Profile S, Profile T, Profile G, Profile C, Profile Q & Profile A), AC Push and TA Push Protocol Switch Switch, HTTPs / SSH Backend Access, T9 Keyboard (Input)					
Optional Functions	IC Card, WiFi, Wireless Doorbell	IC Card, Wi-Fi, Wireless Doorbell		IC Card, Wi-Fi, Wireless Doorbell		IC Card, Wi-Fi, Wireless Doorbell	
Access Control Interface	/	RS485 (RS485 Card Reader / Biometric Reader)		RS485 (RS485 Card Reader / Biometric Reader)		RS485 (RS485 Card Reader / Biometric Reader)	
Power Supply	DC 12V 1.5A (Optional)	DC 12V 3A (Optional)		DC 12V 3A (Optional)		DC 12V 3A (Optional)	
Operating Temperature	-5°C to 45°C	-5°C to 45°C		-5°C to 45°C		-5°C to 45°C	
Operating Humidity	20% to 80% RH (Non-condensing)	10% to 90% RH (Non-condensing)		10% to 90% RH (Non-condensing)		10% to 90% RH (Non-condensing)	
Dimensions (L * W * H)	205.20mm * 74.19mm * 33.30mm	166mm * 63mm * 25mm		175mm * 84.50mm * 21.65mm		238mm * 115mm * 22.3mm	214mm * 115mm * 22.3mm
Net Weight	0.258Kg	0.185Kg		0.264Kg		0.622Kg	
Supported Software	Software: ZKBio CVAccess / ZKBio Time Mobile App: ZKBio Zlink Cloud Service: ZKBio Zlink	Software: ZKBio CVAccess / ZKBio Time Mobile App: ZKBio Zlink / ZSmart Cloud Service: ZKBio Zlink		Software: ZKBio CVAccess / ZKBio Time Mobile App: ZKBio Zlink Cloud Service: ZKBio Zlink		Software: ZKBio CVAccess / ZKBio Time Mobile App: ZKBio Zlink Cloud Service: ZKBio Zlink	
Installation	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box)	Wall-mount (Compatible with Asian Gang Box / Single Gang Box		Wall-mount (Compatible with Asia Gang Box / Single Gang Box)		Wall-mount (Compatible with Asian Gang-box / Single Gang-Box)	
Housing Material	ABS Plastic	ABS Plastic		ABS Plastic		ABS Plastic	
Ingress Protection Rating	/	IP65 (waterproof and dustproof)		IP65 (waterproof and dustproof)		IP65 (waterproof and dustproof)	
Certifications	ISO14001, ISO9001,CE, FCC, RoHS	ISO14001, ISO9001,CE, FCC, RoHS		ISO14001, ISO9001, CE, FCC, RoHS		ISO14001, ISO9001, CE, FCC, RoHS	





SpeedFace Series

Linux-Based Hybrid-Biometric Access Control & Time and Attendance Terminal with Visible Light Facial Recognition



Support Standard SIP Protocol
for Video Intercom



Multiple Credential Options
(Face/ Fingerprint/ RFID/QR Code/ Pincode)



Water and Dust Proof Reached
Up to IP65



Professional Access
Control Interfaces



Support BEST/ PUSH Dual Communication Protocol
(Configurable)



Wi-Fi Compatible



Supports Zlink for Cloud-based Access Control and Time
& Attendance Management

Model	F35	FaceDepot 4A	SpeedFace-V4L Pro	SpeedFace-V4L Pro-QR	SpeedFace-V4L Pro-RFID
Appearance					
Display	2.4"@TFT Color LCD Screen (720 * 1280)	4.3"@TFT Color Touch LED Screen (480 * 800)	4"@TFT Color Touch LED Screen (480 * 800)		
Camera	Camera @ 2MP	Binocular Camera @ 2MP WDR	Binocular Camera @ 2MP	Binocular Camera @ 2MP	Binocular Camera @ 2MP
Operation System	Linux	Linux	Linux	Linux	Linux
Hardware	CPU: 1.2GHz Dual Core RAM: 256MB; ROM: 512MB Speaker: 8ohms±20% @1.0W Microphone: * 1 (Sensitivity: -29 to -35 dB / Omni-directional / Signal-to-Noise Ratio: 58 dB / Impedance: 2.2 kΩ Fingerprint Sensor: In-Glass Fingerprint / Z-ID	CPU: Quad Core@1.2GHz RAM: 1GB; ROM: 8GB Speaker: 8 ohm @1 W Supplement Light: No Fingerprint Sensor: In-Glass Fingerprint	CPU: Dual Core@1GHz RAM: 1GB; ROM: 8GB Speaker: 8 ohm@1 W Microphone: * 1 (Sensitivity: -32dB / Omni-directional / Signal-to-Noise Ratio: 58dB / Impedance: 2.2kΩ)		
			Fingerprint Sensor: In-Glass Fingerprint (Z-ID)	/	/
Authentication method	Fingerprint / Card / Password (Physical Touch Keypad)	Fingerprint / Face / Card / Password (Virtual Keypad)	Face / Fingerprint / Card / Password (Virtual Keypad)	Face / Scramble QR Code / Card / Password (Virtual Keypad)	Face / Card / Password (Virtual Keypad)
User Capacity	10,000 (1:N)	10,000 (1:N) (Standard)	6,000 (1:N) (Standard)	6,000 (1:N) (Standard)	6,000 (1:N) (Standard)
Fingerprint Template Capacity	10,000 (1:N)	10,000 (1:N) (Standard)	6,000 (1:N) (Standard)	/	/
Face Template Capacity	/	10,000 (1:N) (Standard)	6,000 (1:N) (Standard)	6,000 (1:N) (Standard)	6,000 (1:N) (Standard)
Palm Template Capacity	/	/	/	/	/
Card Capacity	10,000 (1:N)	10,000 (1:N) (Standard)	6,000 (1:N) (Standard)	6,000 (1:N) (Standard)	6,000 (1:N) (Standard)
Transaction Capacity	500,000	100,000 (1:N) (Optional for Capacity Expansion: 200,000)	200,000 (1:N)	200,000 (1:N)	200,000 (1:N)
Max. User Password Length	6 to 8 Digits	8 Digit	8 Digits	8 Digits	8 Digits
Biometric Verification Speed	less than 0.3 sec (Fingerprint)	less than 0.35 second (Facial Authentication) less than 0.5 second (Fingerprint Authentication)	less than 0.35 second (Facial Authentication) less than 0.5 second (Fingerprint Authentication)	less than 0.35 second (Facial Authentication)	less than 0.35 second (Facial Authentication)
Touchless Biometric Recognition Distance	/	30cm to 200cm @ Face	30cm to 170cm @Face	30cm to 170cm @Face	30cm to 170cm @Face
False Acceptance Rate (FAR) %	FAR≤0.0001%	FAR≤0.01% (Facial Authentication) FAR≤0.0001% (Fingerprint)	FAR≤0.01% (Visible Light Facial Authentication) FAR≤0.0001% (Fingerprint)	FAR≤0.01% (Visible Light Facial Authentication)	FAR≤0.01% (Visible Light Facial Authentication)










Model	F35	FaceDepot 4A	SpeedFace-V4L Pro	SpeedFace-V4L Pro-QR	SpeedFace-V4L Pro-RFID
False Rejection Rate (FRR) %	FRR≤0.01%	FRR≤0.02% (Facial Authentication) FRR≤0.01% (Fingerprint)	FRR≤0.02% (Visible Light Facial Authentication) FRR≤0.01% (Fingerprint)	FRR≤0.02% (Visible Light Facial Authentication)	FRR≤0.02% (Visible Light Facial Authentication)
Biometric Algorithm	ZKFingerprint V10.0	ZKFace V6.0 & ZKFingerprint V10.0	ZKFace V3.9 & ZKFinger V10.0	ZKFace V3.9	ZKFace V3.9
Card Type	IDCard@125 kHz (Standard) IC Card@13.56 MHz (Optional) Optional Multi-Tech Module: Module1: ID & IC & DESFire EV1/EV2; (125 kHz & 13.56 MHz Dual Frequency) Module 2: ID & IC & DESFire EV1/EV2 & FeliCa & Legic & HID Prox (125 kHz & 13.56 MHz Dual Frequency) Module 3: ID & IC & DESFire EV1/EV2 & FeliCa & Legic & HID Prox & HID iClass (125 kHz & 13.56 MHz Dual Frequency)	ID Card@125 kHz (Optional) HID Prox@125 kHz (Optional) IC Card@13.56 MHz (Optional) Optional Multi-Tech Module: Module1: ID & IC & DESFire EV1/EV2; (125 kHz & 13.56 MHz Dual Frequency)	ID Card@125 kHz (Optional) HID Prox@125 kHz (Optional) IC Card@13.56 MHz (Optional) Felica Card@13.56 MHz (Optional) Optional Multi-Tech Module: Module1: ID & IC & DESFire EV1/EV2; (125 kHz & 13.56 MHz Dual Frequency)		ID Card@125 kHz (Standard) HID Prox@125 kHz (Optional) IC Card@13.56 MHz (Optional) Felica Card@13.56 MHz (Optional) Optional Multi-Tech Module: Module 1: ID & IC & DESFire EV1/ EV2; (125 kHz & 13.56 MHz Dual Frequency)
QR Code	/	/	/	Dynamic QR codes on the ZKBio CVAccess Mobile Page, PDF417, Data Matrix, MicroPDF417, Aztec scanning in third-party development projects	/
Communication	TCP/IP * 1 Wi-Fi (IEEE802.11a/g/n) @ 2.4 GHz Wiegand (Input & Output) * 1 RS485: ZKTeco RS485 * 1 Aux Inputs * 1, Aux Outputs * 1, Electric Lock * 1, Door Sensor * 1, Exit Button * 1, Alarm * 1, Doorbell * 1	TCP/IP * 1 Wi-Fi (IEEE802.11a/b/g/n/ac) @ 2.4 GHz/5G GHz Wiegand (Input & Output) * 1 RS485: ZKTeco RS485 * 1 USB: Type A (USB Drive Only) * 1 Aux Inputs * 1, Electric Lock * 1, Door Sensor * 1, Exit Button * 1, Alarm Output * 1	TCP/IP * 1 Wi-Fi (IEEE802.1a/b/g/n/ac) @ 2.4 GHz/5G GHz Bluetooth: BLE5.0 Wiegand (Input & Output) * 1 RS485: ZKTeco RS485 * 1 USB: Type A (USB Drive Only) * 1 Aux Inputs * 1, Electric Lock * 1, Door Sensor * 1, Exit Button * 1, Alarm output * 1, Wired Doorbell * 1		
Mobile Communication	/	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/ B13/B18/B19/B20/B25/B26/B28 LTE TDD: B38/B39/B40/B41 UMTS: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B8	/		
Standard Functions	Webserver, ADMS, DST, Up to 14-digit User ID, Access Levels, Groups, Holidays, Anti Passback, Record Query, Tamper Switch Alarm, Multiple Verification Methods Video Door Phone, ONVIF (Compatible with Profile S, Profile T, Profile G, Profile C, Profile Q & Profile A), AC Push and TA Push, Protocol Switch, HTTPS / SSH Backend Access, T9 Keyboard (Input)	WorkCode, ADMS, DST, T9 Keyboard (Input), Photo Capture, Event Photo Capture, 14-digit User ID, Schedule Bell, Record Query, Tamper Switch Alarm, Photo ID, Multiple Verification Methods, External Printer, HTTPS/SSH Backend Access, 12V Output	ADMS, DST, 14-digit User ID, T9 Keyboard (Input), Photo Capture, Event Photo Capture, Record Query, Tamper Switch Alarm, Automatic Status Switch, Multiple Verification Methods, Anti-Passback, Wired Doorbell, Schedule Bell, HTTPS/SSH Backend Access, AC Push and TA Push Protocol Switch		
Optional Functions	ZSmart, SIP Client, Wi-Fi, IC Card, Multi-Tech Module: Module1 / Module2 / Module 3	Wi-Fi, 4G, Backup Battery, PoE	Wi-Fi, SRB, WorkCode, Video Door Phone, SIP Protocol, Wireless Doorbell		
Access Control Interface	RS485 (DM10 Controller 1 Door Expansion / RS485 Card Reader / Fingerprint Reader)	RS485 (RS485 Card Reader / Biometric Reader)	RS485 (RS485 Card Reader / Biometric Reader)		
Power Supply	DC 12V 3A (Optional)	DC 12V 3A PoE: IEEE 802.3af Backup Battery	DC 12V 3A (Optional)		

Model	F35	FaceDepot 4A	SpeedFace-V4L Pro	SpeedFace-V4L Pro-QR	SpeedFace-V4L Pro-RFID
Backup Battery	/	2000 mAh (Lithium Battery) Max. Operating Hours: 2 Hours Max. Standby Hours: 2 Hours Charging Time: 2.5 to 3 Hours	/		
Operating Temperature	-5°C to 55°C (23°F to 131°F)	0°C to 45°C	-5°C to 45°C	-5°C to 45°C	-5°C to 45°C
Operating Humidity	10% to 90% RH (Non-condensing)	20% to 80% RH (Non-condensing)	10% to 90% RH (Non-condensing)	10% to 90% RH (Non-condensing)	10% to 90% RH (Non-condensing)
Dimensions (L * W * H)	195 mm * 75 mm * 25.35mm	193mm * 100mm * 32.40mm	183mm * 88mm * 20.5mm	183mm * 88mm * 20.5mm	183mm * 88mm * 20.5mm
Gross Weight	1.13Kg	0.447Kg	0.503kg	0.503kg	0.503kg
Net Weight	0.52Kg	0.402Kg	0.453kg	0.453kg	0.453kg
Supported Software	Software: ZKBio CVAccess / ZKBioTime Mobile App: ZSmart	ZKBio Time / ZKBio CVAccess (T&A Module)	Software: ZKBio CVAccess Mobile App: ZKBio Zlink / ZSmart Cloud Service: ZKBio Zlink	Software: ZKBio CVAccess Mobile App: ZKBio Zlink / ZSmart Cloud Service: ZKBio Zlink	Software: ZKBio CVAccess Mobile App: ZKBio Zlink / ZSmart Cloud Service: ZKBio Zlink
Installation	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box / European Gang-Box)	Wall-mount	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box)	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box)	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box)
Housing Material	Aluminium Alloy	ABS Plastic	ABS Plastic	ABS Plastic	ABS Plastic
Ingress Protection Rating	IP65 (waterproof and dustproof) IK04 (Vandal Resistant)	/	IP65 (waterproof and dustproof)	IP65 (waterproof and dustproof)	IP65 (waterproof and dustproof)
Certifications	ISO14001, ISO9001,CE, FCC, RoHS	ISO14001, ISO9001, CE, FCC, RoHS	ISO14001, ISO9001,CE, FCC, RoHS	ISO14001, ISO9001,CE, FCC, RoHS	ISO14001, ISO9001,CE, FCC, RoHS





Model	SpeedFace-V5L	SpeedFace-V5L[QR]	SpeedFace-V5L-RFID	SpeedFace M4	SpeedPalm-V5L
Appearance					
Display	5"@ ISP Color LCD Screen (720 * 1280)			5"@ ISP Color LCD Touch Screen (720 * 1280)	5"@ ISP Color LCD Touch Screen (720 * 1280)
Camera	WDR Low Light Camera @ 2MP			WDR Low Light Camera @ 2MP	WDR Low Light Camera @ 2MP
Operation System	Linux			Linux	Linux
Hardware	CPU: 1.GHz Dual Core; RAM: 1GB; ROM: 8GB; Supplement Light: Yes; Virtual Keypad: 12Keys			1GHz Dual Core CPU 1G RAM / 8G Flash Adjustable LED Supplement Lighting Rain Cover (Optional)	CPU: 1GHz Dual Core; RAM: 1G; ROM: 8G; Supplement Light: Yes; Steady Green LED: Normal Status; Steady White LED: Authentication in Progress; Steady Red LED: Error / Fault; Steady Orange LED: Object nearby detected;
	Fingerprint Sensor: Z-ID	/	/		
Authentication method	Face / Fingerprint / Palm (Customized) / Card / Password (Virtual Keypad)	Face / Scramble QR Code / Palm (Customized) / Card / Password (Virtual Keypad)	Face / Palm (Customized) / Card / Password (Virtual Keypad)	Face / Palm (Customized) / Card / Password (Virtual Keypad)	Face / Palm / Card / Password (Virtual Keypad)
User Capacity	10,000 (1:N) (Standard)	10,000 (1:N) (Standard)	10,000 (1:N) (Standard)	10,000 (1:N) (Standard)	10,000 (1:N)
Fingerprint Template Capacity	10,000 (1:N) (Standard)	/	/	/	/
Face Template Capacity	10,000 (1:N) (Standard)	10,000 (1:N) (Standard)	10,000 (1:N) (Standard)	10,000 (1:N) (Standard)	10,000 (1:N)
Palm Template Capacity	3,000 (Customized)	3,000 (Customized)	3,000 (Customized)	3,000 (Customized)	5,000 (1:N)
Card Capacity	10,000 (1:N) (Standard)	10,000 (1:N) (Standard)	10,000 (1:N) (Standard)	10,000 (1:N) (Standard)	10,000 (1:N)
Transaction Capacity	200,000 (1:N)	200,000 (1:N)	200,000 (1:N)	200,000 (Optional: 500,000)	200,000
Max. User Password Length	8 Digits	8 Digits	8 Digits	8 Digits	8 Digits
Biometric Verification Speed	less than 0.3 sec (Fingerprint) less than 1 sec (Facial Authentication) less than 0.35 Sec (Palm Authentication)	less than 1 sec (Facial Authentication) less than 0.35 Sec (Palm Authentication)	less than 1 sec (Facial Authentication) less than 0.35 Sec (Palm Authentication)	less than 1 sec (Facial Authentication) less than 0.35 Sec (Palm Authentication)	less than 1 sec (Facial Authentication) less than 0.35 Sec (Palm Authentication)
Touchless Biometric Recognition Distance	1cm to 100cm (Facial Recognition) ; Up to 50cm (Palm)			1cm to 100cm (Facial Recognition) Up to 50cm (Palm)	1cm to 100cm (Facial Authentication) 5cm to 15cm (Palm Authentication)
False Acceptance Rate (FAR) %	FAR≤0.01% (Visible Light Facial Authentication) FAR≤0.0001% (Fingerprint; ZKFingerprint V10.0) FAR≤0.05% (ZKPalm V12.0)	FAR≤0.01% (Visible Light Facial Authentication) FAR≤0.05% (ZKPalm V12.0)	FAR≤0.01% (Visible Light Facial Authentication) FAR≤0.05% (ZKPalm V12.0)	FAR≤0.01% (Visible Light Facial Authentication) FAR≤0.05% (ZKPalm V12.0)	FAR≤0.01% (Visible Light Facial Authentication) FAR≤0.01% (Palm Authentication)
False Rejection Rate (FRR) %	FRR≤0.02% (Visible Light Facial Authentication) FRR≤0.01% (Fingerprint : ZKFingerprint V10.0) FRR≤1.8% (ZKPalm V12.0)	FRR ≤ 0.02% (Visible Light Facial Authentication) FRR ≤ 1.8% (ZKPalm V12.0)	FRR ≤ 0.02% (Visible Light Facial Authentication) FRR ≤ 1.8% (ZKPalm V12.0)	FRR≤0.02% (Visible Light Facial Authentication) FRR ≤ 1.8% (ZKPalm V12.0)	FRR≤0.02% (Visible Light Facial Authentication) FRR≤0.17% (Palm Authentication)
Biometric Algorithm	ZKFace 3.9 ArmaturaPalm (Customized) ZKFingerprint V10.0	ZKFace 3.9 ArmaturaPalm (Customized)	ZKFace 3.9 ArmaturaPalm (Customized)	ZKFace 3.9 ArmaturaPalm (Customized)	ZKFace V3.9 & PalmElite3.3.3

Model	SpeedFace-V5L	SpeedFace-V5L[QR]	SpeedFace-V5L-RFID	SpeedFace M4	SpeedPalm-V5L
Card Type	ID Card@125 kHz (Optional) IC Card@13.56 MHz (Optional) Felica Card@13.56 MHz (Optional) CEPAS(Optional) Optional Multi-Tech Module: Module 1: ID & IC & DESFire & FeliCa & HID Prox (125 kHz & 13.56 MHz Dual Frequency) Module 2: ID & IC & DESFire & FeliCa & HID Prox & HID iClass (125 kHz & 13.56 MHz Dual Frequency)	ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional) Felica Card@13.56 MHz (Optional) Optional Multi-Tech Module: Module 1: ID & IC & DESFire & FeliCa & HID Prox (125 kHz & 13.56 MHz Dual Frequency)	ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional) Desfire Card@13.56 MHz (Optional) Optional Multi-Tech Module: Module 1: ID & IC & DESFire & FeliCa & HID Prox (125 kHz & 13.56 MHz Dual Frequency) Module 2: ID & IC & DESFire & FeliCa & HID Prox & HID iClass (125 kHz & 13.56 MHz Dual Frequency)	ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional) HID Proxy Card@125 kHz (Optional) HID iClass Card@13.56 MHz (Optional) Felica Card@13.56 MHz (Optional) CEPAS(Optional) Legic (Optional)	ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional)
QR Code	By Camera: Dynamic or Static QR codes on the ZKBio CVSecurity mobile application. QR code, PDF417, Data Matrix, MicroPDF417 and Aztec scanning in third-party development projects (Support QR500 / 600 Series)		By QR Module: Dynamic or Static QR codes on the ZKBio CVSecurity mobile application. QR Code, PDF417, Data Matrix, MicroPDF417, Aztec	By Camera: Dynamic or Static QR codes on the ZKBio CVSecurity mobile application. QR code, PDF417, Data Matrix, MicroPDF417 and Aztec	/
Communication	TCP/IP * 1 Wi-Fi (IEEE802.1a/b/g/n/ac) @2.4GHz/5GHz(Optional) Wiegand (Input & Output) * 1 RS485: ZKTeco RS485 * 1 Aux Inputs * 1, Aux Outputs * 1, Electric Lock * 1, Door Sensor * 1, Exit Button * 1, Alarm * 1, Doorbell * 1			TCP/IP * 1 Wi-Fi (IEEE802.1a/b/g/n/ac) @ 2.4 GHz / 5G GHz Wiegand (Input & Output) * 1 RS485: ZKTeco RS485 * 1 USB: Type A (USB Drive Only) * 1 Aux Inputs * 1, Electric Lock * 1, Door Sensor * 1, Exit Button * 1, Alarm output * 1	TCP/IP * 1 Wi-Fi (IEEE 802.1 a/b/g/n/ac) @2.4GHz / 5GHz Wiegand (Input or Output) * 1 RS485: ZKTeco RS485 * 1 Aux Inputs * 1, Aux Outputs * 1, Electric Lock * 1, Door Sensor * 1, Exit Button * 1, Alarm * 1, Doorbell * 1
Mobile Communication	/			/	/
Standard Functions	ADMS, T9 Input, DST, 14-digit User ID, Access Levels, Groups, Holidays, Anti-passback, Record Query, Tamper Switch Alarm, Multiple Verification Methods			ID Card, ADMS, DNS, T9 Input, DST, Camera, 9-digit User ID, Advance Access Control, Groups, Holidays, Anti-passback, Record Query, Tamper Switch Alarm, Bell Scheduling	ADMS, T9 Input, 14-digit User ID, Access Levels, Groups, Holidays, Antipassback, Record Query, Schedule Bell, Tamper Switch Alarm, Mask Detection ,Multiple Verification Methods, SIP 2.0 Protocol, AC Push and TA Push Protocol Switch
Optional Functions	ZSmart, SIP Client, Wi-Fi, IC Card, Multi-Tech Module: Module1 / Module2	ZSmart, Wi-Fi, IC Card, Multi-Tech Module: Module 1	ZSmart, Wi-Fi, IC Card, Multi-Tech Module: Module1/ Module2	IC / HID / Felica / Legic Card, POE (Optional, IEEE 802.3at-2009)	IC Card, ZSmart APP
Access Control Interface	RS485 (RS485 Card Reader / Biometric Reader)			RS485 (RS485 Card Reader / Biometric Reader)	RS485 (RS485 Card Reader / Biometric Reader)
Power Supply	DC 12V 3A			DC 12V 3A	DC 12V 3A (Optional)
Backup Battery	/			/	/
Operating Temperature	-10°C to 45°C			-10°C to 50°C	-10°C to 45°C
Operating Humidity	10% to 90% RH (Non-condensing)			10% to 90% RH (Non-condensing)	10% to 90% RH (Non-condensing)
Dimensions (L * W * H)	91.93mm * 202.93mm * 21.5mm			103.83mm * 212.41mm * 50.60mm	227.3mm * 92.3mm * 24.5mm
Gross Weight	1.3Kg			1.54Kg	1.3Kg
Net Weight	0.6Kg			0.74Kg	0.62Kg
Supported Software	Software: ZKBio CVAccess; Mobile App: ZKBio Zlink / ZSmart; Cloud Service: ZKBio Zlink			Software: ZKBio CVAccess	Software: ZKBio CVAccess / ZKBio Time / ZKBio CVSecurity; Mobile App: ZSmart
Installation	Wall-mount (Compatible with Asia Gang Box / Single Gang Box)			Wall-mount (Compatible with Asia Gang Box / Single Gang Box)	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box)
Housing Material	Aluminium Alloy			Aluminium Alloy	Aluminium Alloy
Ingress Protection Rating	/			IP66	/
Certifications	ISO14001, ISO9001, CE, FCC, RoHS			ISO14001, ISO9001, CE, FCC, RoHS	ISO14001, ISO9001, CE, FCC, RoHS



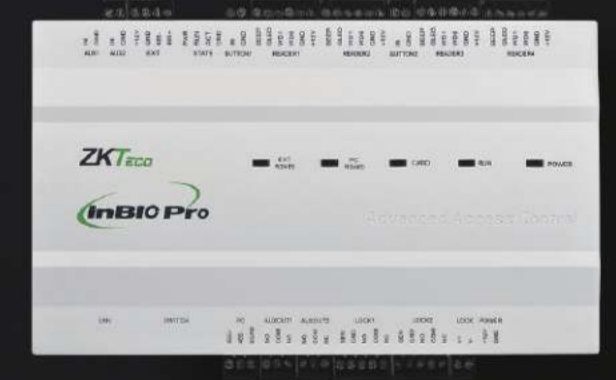


Controller

Professional Biometric Access Control Panel

InBio Pro Plus Series

IP-Based Biometric Access Control Panel



InBio Pro Plus Series is a project oriented, high-end product line with distinctive features, including embedded facial and fingerprint authentication, as well as advanced access control functions. Equipped with TCP/IP, it enables robust remote management and connectivity over local (LAN) and wide area networks (WAN), enhancing deployment flexibility and scalability.



Up to 3,000 face templates



Up to 20,000 fingerprint templates



Up to 100,000 card users



Up to 100,000 Dynamic QR code capacity



Communication TCP/IP support HTTP/HTTPS



Enhanced Security with Dynamic QR Code






Fully compatible with ZKBio CVSecurity



Reduce Maintenance Cost allows for remote online firmware updates by ZKBio CVSecurity



Model	InBio160 Pro Plus	InBio260 Pro Plus	InBio460 Pro Plus
Appearance			
Operation System	Linux OS	Linux OS	Linux OS
Hardware	CPU: Single Core@1.0GHz RAM: 128MB; ROM: 256MB	CPU: Single Core@1.0GHz RAM: 128MB; ROM: 256MB	CPU: Single Core@1.0GHz RAM: 128MB; ROM: 256MB
Authentication method	Card / Password / Fingerprint / Face / QR Code	Card / Password / Fingerprint / Face / QR Code	Card / Password / Fingerprint / Face / QR Code
Access Point Capacity	1 Access Point	2 Access Points	4 Access Points
Reader Capacity	2 * RS-485 Readers (ZKTeco RS-485/OSDP), 2 * 26/34/66 bit Wiegand Readers	4 * RS-485 Readers (ZKTeco RS-485/OSDP), 4 * 26/34/66-bit Wiegand Readers	8 * RS-485 Readers (ZKTeco RS-485/OSDP), 4 * 26/34/66-bit Wiegand Readers
IO Expansion Board Capacity	8pcs EX0808(RS-485 connection)	8pcs EX0808(RS-485 connection)	8pcs EX0808(RS-485 connection)
User Capacity	100,000	100,000	100,000
Card Capacity	100,000 (1:N) (Standard)	100,000 (1:N) (Standard)	100,000 (1:N) (Standard)
Fingerprint Template Capacity	20,000 (1:N) (Standard)	20,000 (1:N) (Standard)	20,000 (1:N) (Standard)
Face Template Capacity	3,000 (1:N) (Standard)	3,000 (1:N) (Standard)	3,000 (1:N) (Standard)
QR Code Capacity	100,000 (Static QR Code / Dynamic QR Code)	100,000 (Static QR Code / Dynamic QR Code)	100,000 (Static QR Code / Dynamic QR Code)
Transaction Capacity	500,000 (Standard)	500,000 (Standard)	500,000 (Standard)
Number of Inputs	1 * Exit Button, 1 * Door Status, 1 * AUX Inputs or 64 (with 8pcs of EX0808 IO expansion board)	2 * Exit Button, 2 * Door Status, 2 * AUX Inputs or 64 (with 8pcs of EX0808 IO expansion board)	4 * Exit Button, 4 * Door Status, 4 * AUX Inputs or 64 (with 8pcs of EX0808 IO expansion board)
Number of Outputs	1 * Form C Relay for Lock, 1 * Form C Relay for Aux Output or 64 (with 8pcs of EX0808 IO expansion board)	2 * Form C Relay for Lock, 2 * Form C Relay for Aux Output or 64 (with 8pcs of EX0808 IO expansion board)	4 * Form C Relay or Lock, 4 * Form C Relay for Aux Output or 64 (with 8pcs of EX0808 IO expansion board)
Max. Card Length	Supports up to 66 bits Card Length	Supports up to 66 bits Card Length	Supports up to 66 bits Card Length

Model	InBio160 Pro Plus	InBio260 Pro Plus	InBio460 Pro Plus
QR Code	PDF417, Data Matrix, MicroPDF417, Aztec scanning in third-party development projects. Dynamic QR codes on the ZKBio CVSecurity mobile application		
Communication	TCP/IP * 1 RS-485: ZKTeco RS-485 / OSDP (Optional) * 1 Wiegand (Input & Output) * 1 USB: Type A (USB Drive Only) * 1 Aux Inputs * 1, Aux Outputs * 1, Electric Lock * 1, Door Sensor * 1, Exit Button * 1, Alarm * 1	TCP/IP * 1 RS-485: ZKTeco RS-485 / OSDP (Optional) * 1 Wiegand (Input & Output) * 1 USB: Type A (USB Drive Only) * 1 Aux Inputs * 2, Aux Outputs * 2, Electric Lock * 2, Door Sensor * 2, Exit Button * 2, Alarm * 2	TCP/IP * 1 RS-485: ZKTeco RS-485 / OSDP (Optional) * 1 Wiegand (Input & Output) * 1 USB: Type A (USB Drive Only) * 1 Aux Inputs * 4, Aux Outputs * 4, Electric Lock * 4, Door Sensor * 4, Exit Button * 4, Alarm * 4
Standard Functions	Webserver, Upto 14-digit User ID, Access Levels, Access Groups, Holidays, Anti-passback,Anti-tailgating, Linkage, Global Linkage, Multiple Verification Methods		
Access Control Interface	Wiegand (Card Reader) RS-485 (RS-485 Card Reader / Fingerprint Reader / Facial Recognition Reader / QR code Reader)		
Power Supply	9.6V - 14.4V DC	9.6V - 14.4V DC	9.6V - 14.4V DC
Operating Temperature	0°C to 45°C	0°C to 45°C	0°C to 45°C
Operating Humidity	20% to 80% RH (Non-condensing)	20% to 80% RH (Non-condensing)	20% to 80% RH (Non-condensing)
Dimensions(L * W * H)	175mm * 99mm * 19.3mm	175mm * 99mm * 19.3mm	215.88mm * 99.14mm * 19.3mm
Gross Weight	1.004Kg	1.037Kg	1.098Kg
Net Weight	0.390Kg	0.422Kg	0.494Kg
Supported Software	ZKBio CVSecurity	ZKBio CVSecurity	ZKBio CVSecurity
Installation	Supported DIN35 Rail / Wall-mount / Metal Enclosure (Optional)	Supported DIN35 Rail / Wall-mount / Metal Enclosure (Optional)	Supported DIN35 Rail / Wall-mount / Metal Enclosure (Optional)
Enclosure (Optional)	Size: 350mm * 90mm * 300mm (L * W * H) Material: SPCC steel Power Supply Unit: input 110V~240V AC,output 12V 2A;1A DC Backup Battery: Space reserved [Backup Battery Recommended size: 151mm * 94mm * 65mm (L * W * H)] Gross Weight: 3.57Kg	Size: 350mm * 90mm * 300mm (L * W * H) Material: SPCC steel Power Supply Unit: input 110V~240V AC,output 12V 4A+1A DC Backup Battery: Space reserved [Backup Battery Recommended size: 151mm * 94mm * 65mm (L * W * H)] Gross Weight: 3.57Kg	Size: 350mm * 90mm * 300mm (L * W * H) Material: SPCC steel Power Supply Unit: input 110V~240V AC,output 12V 4A+1A DC Backup Battery: Space reserved [Backup Battery Recommended size: 151 mm * 94mm * 65 mm(L * W * H)] Gross Weight: 3.77Kg
Certifications	ISO14001, ISO9001, CE, FCC, RoHS	ISO14001, ISO9001, CE, FCC, RoHS	ISO14001, ISO9001, CE, FCC, RoHS
Factory ID	AC02-CB11H-U10	AC02-CB12H-U10	AC02-CB14H-U10





C3 Plus Series

IP-based Door Controller



Access points capacity
1/2/4 Access Points



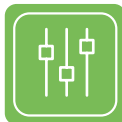
Multiple Authentication Methods
(RFID Cards / Dynamic QR Code / Password)



Supports 100,000 QR
Code capacity



Supports 100,000 RFID
card capacity



Features ZKTeco's RS-485 protocols
and OSDP (Ver 2.1.7) for
connecting card readers



Highly versatile with Wiegand
interfaces (Input) for integrating with
third party card reader equipped
with Wiegand interface



Supports the I/O expansion board
EX0808 with 8 inputs and 8 outputs



Supports firmware protocol
access control push and compatible
with ZKBio CVAcess

Model	C3-100 Plus	C3-200 Plus	C3-400 Plus
Appearance			
Operation System	Linux OS	Linux OS	Linux OS
Hardware	CPU: Single Core@1.0GHz RAM: 128MB; ROM:256MB	CPU: Single Core@1.0GHz RAM: 128MB; ROM:256MB	CPU: Single Core@1.0GHz RAM: 128MB; ROM:256MB
Authentication method	Card / Password / QR Code	Card / Password / QR Code	Card / Password / QR Code
Access Point Capacity	1 Access Point	2 Access Points	4 Access Points
Reader Capacity	2 * RS-485 Readers (ZKTeco RS-485 / OSDP) 2 * 26/34/66 bit Wiegand Readers	4 * RS-485 Readers (ZKTeco RS-485 / OSDP) 4 * 26/34/66-bit Wiegand Readers	8 * RS-485 Readers (ZKTeco RS-485 / OSDP) 4 * 26/34/66-bit Wiegand Readers
IO Expansion Board Capacity	8pcs EX0808 (RS-485 connection)	8pcs EX0808 (RS-485 connection)	8pcs EX0808 (RS-485 connection)
User Capacity	100,000	100,000	100,000
Card Capacity	100,000(1:N) (Standard)	100,000(1:N) (Standard)	100,000(1:N) (Standard)
Fingerprint Template Capacity	/	/	/
Face Template Capacity	/	/	/
QR Code Capacity	100,000 (Static QR Code / Dynamic QR Code)	100,000 (Static QR Code / Dynamic QR Code)	100,000 (Static QR Code / Dynamic QR Code)
Transaction Capacity	500,000 (Standard)	500,000 (Standard)	500,000 (Standard)
Number of Inputs	1 * Exit Button, 1 * Door Status, 1 * AUX Inputs or 64 (with 8pcs of EX0808 IO expansion board)	2 * Exit Button, 2 * Door Status, 2 * AUX Inputs or 64 (with 8pcs of EX0808 IO expansion board)	4 * Exit Button, 4 * Door Status, 4 * AUX Inputs or 64 (with 8pcs of EX0808 IO expansion board)
Number of Outputs	1 * Form C Relay for Lock, 1 * Form C Relay for Aux Output or 64 (with 8pcs of EX0808 IO expansion board)	2 * Form C Relay for Lock, 2 * Form C Relay for Aux Output or 64 (with 8pcs of EX0808 IO expansion board)	4 * Form C Relay for Lock, 4 * Form C Relay for Aux Output or 64 (with 8pcs of EX0808 IO expansion board)
Max. Card Length	Supports up to 66 bits Card Length	Supports up to 66 bits Card Length	Supports up to 66 bits Card Length





Model	C3-100 Plus	C3-200 Plus	C3-400 Plus
QR Code	QR code, PDF417, Data Matrix, MicroPDF417, Aztec scanning in third-party development projects. Dynamic QR codes on the ZKBio CVAccess mobile application.		
Communication	TCP/IP * 1 RS-485: ZKTeco RS-485/OSDP * 1 Wiegand (Input) * 1 USB: Type A (USB Drive Only) * 1 Aux Inputs * 1, Aux Outputs * 1 Electric Lock * 1, Door Sensor * 1 Exit Button * 1, Alarm * 1	TCP/IP * 1 RS-485: ZKTeco RS-485/OSDP * 1 Wiegand (Input) * 1 USB: Type A (USB Drive Only) * 1 Aux Inputs * 2, Aux Outputs * 2 Electric Lock * 2, Door Sensor * 2 Exit Button * 2, Alarm * 2	TCP/IP * 1 RS-485: ZKTeco RS-485/OSDP * 1 Wiegand (Input) * 1 USB: Type A (USB Drive Only) * 1 Aux Inputs * 4, Aux Outputs * 4 Electric Lock * 4, Door Sensor * 4 Exit Button * 4, Alarm * 4"
Standard Functions	Webserver, Upto 14-digit User ID, Access Levels, Access Groups, Holidays, Anti-passback,Anti-tailgating, Linkage, Global Linkage, Multiple Verification Methods		
Access Control Interface	Wiegand (Card Reader) RS485 (RS-485 Card Reader / QR Code Reader)	Wiegand (Card Reader) RS485 (RS-485 Card Reader / QR Code Reader)	Wiegand (Card Reader) RS485 (RS-485 Card Reader / QR Code Reader)
Power Supply	9.6V- 14.4V DC	9.6V- 14.4V DC	9.6V- 14.4V DC
Operating Temperature	0°C to 45°C	0°C to 45°C	0°C to 45°C
Operating Humidity	20% to 80% RH (Non-condensing)	20% to 80% RH (Non-condensing)	20% to 80% RH (Non-condensing)
Dimensions(L * W * H)	175mm * 99mm * 19.3 mm	175mm * 99 mm * 19.3mm	215.88mm * 99.14mm * 19.3mm
Gross Weight	0.263Kg	0.296Kg	0.357Kg
Net Weight	0.158Kg	0.190Kg	0.252Kg
Supported Software	ZKBio CVAccess	ZKBio CVAccess	ZKBio CVAccess
Installation	Supported Wall-mount / Metal Enclosure (Optional)	Supported Wall-mount / Metal Enclosure (Optional)	Supported Wall-mount / Metal Enclosure (Optional)
Enclosure (Optional)	Size: 350mm * 90mm * 300mm (L * W * H) Material: SPCC steel Power Supply Unit: input 110V~240V AC,output 12V 4A+1A DC Backup Battery: Space reserved (Recommend size: 151mm * 94mm * 65mm (L * W * H) Gross Weight: 3.35Kg	Size: 350mm * 90mm * 300 mm (L * W * H) Material: SPCC steel Power Supply Unit: input 110V~240V AC,output 12V 4A+1A DC Backup Battery: Space reserved (Recommend size: 151mm * 94 mm * 65 mm (L * W * H) Gross Weight: 3.35Kg	Size: 350mm * 90mm * 300mm (L * W * H) Material: SPCC steel Power Supply Unit: input 110V~240V AC,output 12V 4A+1A DC Backup Battery: Space reserved (Recommend size: 151mm * 94 mm * 65 mm (L * W * H) Gross Weight: 3.56Kg
Certifications	ISO14001, ISO9001, CE, FCC, RoHS	ISO14001, ISO9001, CE, FCC, RoHS	ISO14001, ISO9001, CE, FCC, RoHS
Factory ID	AC02-C11H-U10	AC02-C12H-U10	AC02-C14H-U10



Reader

Professional RFID and Biometric Reader



KF1000 Pro Series

Professional Visible Light Facial Authentication & RFID Reader



Biometric Reader Mode (via RS-485)



Dedicated to InBio Pro Plus controller to adopt facial authentication technology (A maximum of face template capacity: 3,000; user capacity: 100,000)



Fully compatible with ZKBio CVSecurity (V6.3.0)



Support high-speed communication ports including TCP/IP, Wi-Fi (IEEE 802.11 a/g/n)



Capture and convert face images into face templates of just 512 bytes

Visible Light Facial Authentication Standalone Device Mode (with DM10)



Support a maximum of 1,500 face templates / 30,000 cards / 100,000 transactions





Support high-speed communication ports including TCP/IP and Wi-Fi (IEEE 802.11 a/g/n)



Fully compatible with ZKBio CVSecurity (V6.3.0)





Support wall-mount and it is compatible with Asian gang-box (KF1100 Pro); Compatible with Single gang-box (KF1200 Pro)

Model	KF1100 Pro	KF1200 Pro
Appearance		
Camera	Dual Camera @ 2MP	
Operation System	Linux OS	
Hardware	CPU: 1.2GHz Dual Core RAM: 256MB; ROM: 512MB	
Authentication Method	Face / Card	
Face Template Capacity	Face Reader Mode: 3,000 Store in InBio Pro Plus (Default) A&C Standalone Mode: 1,500 (1:N) (with DM10) (Optional)	
Card Capacity	Face Reader Mode: 100,000 Store in InBio Pro Plus (Default) A&C Standalone Mode: 30,000 (1:N) (with DM10) (Optional)	
User Capacity	Face Reader Mode: 100,000 Store in InBio Pro Plus (Default) A&C Standalone Mode: 30,000 (1:N) (with DM10) (Optional)	
Transaction Capacity	Face Reader Mode: 500,000 Store in InBio Pro Plus (Default) A&C Standalone Mode: 100,000 (1:N) (with DM10) (Optional)	
Biometric Authentication Speed	less than 0.3 sec (Facial Recognition)	
Touchless Biometric Authentication Distance	30cm to 50cm (Facial Recognition)	
Touchless Biometric Operating Lighting Environment	≤2,000 lux @ Face	
False Acceptance Rate (FAR) %	FAR≤@0.01%	
False Rejection Rate (FRR) %	FRR≤@0.02%	
Biometric Algorithm	ZKLiveface 3.5	




Model	KF1100 Pro	KF1200 Pro
Card Type	IDCard@125 kHz (Standard) IC Card@13.56 MHz (Optional)	
Communication	Face Reader Mode: ZKTeco RS-485 * 1 A&C Standalone Mode / Face Template Mode:TCP/IP * 1 Wi-Fi (IEEE802.11a/g/n) @ 2.4 GHz (Optional)	
Standard Functions	Face Reader Mode (with InBio Pro Plus) A&C Standalone Mode(with DM10) Face Template Mode(Default)	
Optional Functions	IC Card@13.56 MHz (Optional) Wi-Fi (IEEE802.11a/g/n) @ 2.4 GHz(Optional)	
Access Control Interface	A&C Standalone Mode (with DM10)	
Power Supply	DC 12V 3A	
Operating Temperature	-10°C to 50°C	
Operating Humidity	10% to 90% RH (Non-condensing)	
Dimensions (L * W * H)	91mm * 91mm * 13.8mm	121mm * 80mm * 13.8mm
Gross Weight	0.36Kg	
Net Weight	0.27Kg	
Supported Software	ZKBio CVSecurity	
Installation	Wall-mount (Compatible with Asian Gang Box)	Wall-mount (Compatible with Single Gang Box)
Housing Material	Aluminium Alloy	
Certifications	ISO14001, ISO9001, CE, FCC, RoHS	
Factory ID	AC01-VL06H-P17	AC01-VL07H-P17







Model	FR1200	FR1500S
Appearance		
Hardware	Physical Keypad: / Fingerprint Sensor: ZK RFID Module:ID Standard, IC Optional QR Code Scanner: / Tamper Switch: / Multiple Colours Visual Indicator: / Multiple Tone Audio Indicator: /	Physical Keypad: / Fingerprint Sensor: Z-ID RFID Module:ID Standard, IC Optional QR Code Scanner: / Tamper Switch: / Multiple Colours Visual Indicator: / Multiple Tone Audio Indicator: /
Display	/	
Authentication method	Fingerprint / Card	
Card Type	ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional)	ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional) HID proxy@125 kHz (Optional) HID iCLASS@13.56 MHz (Optional)
Biometric Verification Speed	<0.3s @ Fingerprint	
Touchless Biometric Recognition Distance	3cm to 5cm @ Card	
Touchless Biometric Operating Lighting Environment	/	
False Acceptance Rate (FAR) %	FAR≤0.0001%	
False Rejection Rate (FRR) %	FRR≤0.01%	
Biometric Algorithm	ZKFingerprint V10.0	
QR Code	/	
Communication	RS-485: ZKTeco RS-485 * 1	
Visual Indicator	Multiple Colours LED: Power On: Red / Green (LED) Status: Red / Green (LED)	


Model	FR1200	FR1500S
Audio Indicator	Multiple Tone Buzzer with Adjustable Intensity	
Tamper Switch	/	
Operating Environment	Indoor / Outdoor / Semi-Enclosed Area	
Power Supply	9VDC to 24VDC	
Operating Temperature	0°C to 45°C	-10°C to 45°C
Operating Humidity	10% to 90% RH (Non-condensing)	
Dimensions (L * W * H)	102mm * 50mm * 37mm	121mm * 77.3mm * 38 mm
Gross Weight	0.22Kg	0.26Kg
Net Weight	0.19Kg	0.20Kg
Installation	Mullion Mount	Wall-mount (Compatible with Single Gang Box)
Housing Material	ABS Plastic	SUS304+ABS Plastic
Ingress Protection Rating	IP65	
Certifications	ISO14001, ISO9001,CE, FCC, RoHS	
Factory ID	AC03-FR01H-05	AC03-FR03H-05

Model	KR600E/M	KR613-OSDP	KR614-OSDP
Appearance			
Hardware	Physical Keypad: / ; RFID Module; Multiple Colours Visual Indicator; Multiple Tone Audio Indicator	Physical Keypad: / ; RFID Module; Multiple Colours Visual Indicator; Multiple Tone Audio Indicator	Physical Keypad: 12 keys; RFID Module; Multiple Colours Visual Indicator; Multiple Tone Audio Indicator
Authentication method	Card	Card	Card
Card Type	ID Card@125 kHz / IC Card@13.56 MHz	ID Card@125 kHz IC / Desfire Card@13.56 MHz	ID Card@125 kHz IC / Desfire Card@13.56 MHz
Verification Speed	<0.3s @ Card	<0.3s @ Card	<0.3s @ Card
Touchless Recognition Distance	5cm to 10cm @ Card	5cm to 10cm @ Card	5cm to 10cm @ Card
QR Code	/	/	/
Communication	KRxxx-E: 26bit Wiegand out (Default) KRxxx-M: 34bit Wiegand out (Default)	34bit Wiegand out OSDP (available to switch RS-485)	34bit Wiegand out OSDP (available to switch RS-485)
Visual Indicator	Multiple Colours LED: Power On: Red / Green (LED) Status: Red / Green (LED)	Multiple Colours LED: Power On: Red / Green (LED) Status: Red / Green (LED)	Multiple Colours LED: Power On: Red / Green (LED) Status: Red / Green (LED)
Audio Indicator	Multiple Tone Buzzer with Adjustable Intensity	Multiple Tone Buzzer with Adjustable Intensity	Multiple Tone Buzzer with Adjustable Intensity
Operating Environment	Indoor	Indoor	Indoor
Power Supply	DC 12V 1.5A	DC 12V 1.5A	DC 12V 1.5A
Operating Temperature	-10°C to 50°C	-10°C to 70°C	-10°C to 70°C
Operating Humidity	20%-80%	20%-80%	20%-80%
Dimensions (L*W*H)	44mm * 78mm * 16mm	86mm * 86mm * 16mm	86mm * 86mm * 16mm
Gross Weight	0.18kg	0.16kg	0.16kg
Net Weight	0.15kg	0.13kg	0.13kg
Installation	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box / European Gang-Box)	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box / European Gang-Box)	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box / European Gang-Box)
Housing Material	PC + ABS Plastic	PC + ABS Plastic	PC + ABS Plastic
Ingress Protection Rating	IP65	IP65	IP65
Certifications	CE	CE	CE









Model	QR500	QR600
Appearance		
Hardware	Physical Keypad: / RFID Module QR Code Scanner Multiple Colours Visual Indicator Multiple Tone Audio Indicator	Physical Keypad: / RFID Module QR Code Scanner Multiple Colours Visual Indicator Multiple Tone Audio Indicator
Authentication method	Card	Card / Password (Physical Touch Keypad)
Card Type	ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional) which includes Ultralight, Mifare (S50/S70), CPU,NFC (analog Card), Desfire EV1, NTag.	ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional) which includes Ultralight, Mifare (S50/S70), CPU,NFC (analog Card), Desfire EV1, NTag.
Verification Speed	<0.3s @ Card	<0.3s @ Card
Touchless Recognition Distance	0-4cm @ Card	0-4cm @ Card
QR Code	Data Matrix, PDF417, GS1 Databar, Code 128/EAN128, UPC/EAN, Codabar, Code 39/Code 93 etc.	QR code, PDF417, Data Matrix, MicroPDF417, Aztec
Communication	USB Wiegand RS-485 (OSPD only for RFID)	Wiegand RS-485(OSPD only for RFID)
Visual Indicator	Multiple Colours LED: Power On: White (LED) Status: Red / Green (LED)	Multiple Colours LED: Power On: White (LED) Status: Red / Green (LED)
Audio Indicator	Multiple Tone Buzzer with Adjustable Intensity	Multiple Tone Buzzer with Adjustable Intensity
Operating Environment	Indoor	Indoor
Power Supply	DC 12V 1.5A	DC 12V
Operating Temperature	-20°C to 60°C	-20°C to 60°C
Operating Humidity	20%-80%	20%-80%
Dimensions	86mm * 86mm * 50mm	QR600-H: 120mm * 80mm * 16mm QR600-V: 138mm * 58mm * 16mm
Gross Weight	0.21kg	0.46kg
Net Weight	0.15kg	0.39kg
Installation	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box / European Gang-Box) Mullion Mount/ Surface Mount	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box / European Gang-Box) Mullion Mount/ Surface Mount
Housing Material	PC + ABS Plastic	Metal
Ingress Protection Rating	/	IP65
Certifications	ISO14001, ISO9001, CE, FCC, RoHS	ISO14001, ISO9001, CE, FCC, RoHS

Model	ProID10(B/W)E/M/-RS	ProID20(B/W)E/M/D/-RS	ProID20(B/W) BEMD-RS	ProID30 (B/W)E/M/D/F/-RS	ProID30 BEMD-RS
Appearance					
Hardware	Physical Keypad: / ; RFID Module ; Multiple Colours Visual Indicator ; Multiple Tone Audio Indicator				
Authentication method	Card			Card/Password(Physical Touch Keypad)	
Card Type	ID Card@125 kHz or IC Card@13.56 MHz	ID Card@125 kHz or IC Card@13.56 MHz	ID Card@125 kHz IC / Desfire / CPU / NFC Card@13.56 MHz	ID Card@125 kHz or IC Card@13.56 MHz or Desfire Card@13.56 MHz or Felica Card@13.56 MHz	ID Card@125 kHz IC / Desfire / CPU / NFC Card@13.56 MHz
Verification Speed	<0.3s @ Card				
Touchless Recognition Distance	3.5cm @ Card	5cm @ Card			
QR Code	/				
Communication	XXX E/M: 26/34bit Wiegand output XXX -RS: RS-485	XXX E/M: 26/34/66bit Wiegand output output XXX -RS: RS-485	26/34bit Wiegand output RS-485	XXX E/M: 26/34bit Wiegand output XXX D: 66bit Wiegand output XXX F: 34/64bit Wiegand output XXX RS: RS-485	26/34bit Wiegand output RS-485
Visual Indicator	Multiple Colours LED: Power On: White (LED) ; Status: Red / Green (LED)				
Audio Indicator	Multiple Tone Buzzer with Adjustable Intensity				
Operating Environment	Indoor	Indoor	Indoor	Indoor	Indoor
Power Supply	DC12V 1.5A	DC12V 1.5A	DC12V 1.5A	DC12V 1.5A	DC12V 1.5A
Operating Temperature	-20°C to 65°C	-20°C to 65°C	-20°C to 65°C	-20°C to 65°C	-20°C to 65°C
Operating Humidity	10%-90%	10%-90%	10%-90%	10%-90%	10%-90%
Dimensions (L * W * H)	44mm * 80.5mm * 15mm	90mm * 90mm * 16mm	90mm * 90mm * 16mm	90mm * 90mm * 16mm	90mm * 90mm * 16mm
Gross Weight	0.12kg	0.19kg	0.19kg	0.2kg	0.2kg
Net Weight	0.07kg	0.13kg	0.13kg	0.14kg	0.14kg
Installation	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box / European Gang-Box)				
Housing Material	PC + ABS Plastic	PC + ABS Plastic	PC + ABS Plastic	PC + ABS Plastic	PC + ABS Plastic
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65
Certifications	CE	CE	CE	CE	CE





Model	ProID40 (B/W)E/M/D/LF	ProID101	ProID102	ProID103
Appearance				
Hardware	Physical Keypad: RFID Module; Multiple Colours Visual Indicator; Multiple Tone Audio Indicator;			
Authentication method	Card	Card	Card	Card
Card Type	ID Card@125 kHz or IC / Desfire / Legic RF / Felica Card@13.56 MHz	ID Card@125 kHz (Standard) or IC Card@13.56 MHz (Optional)	ID Card@125 kHz (Standard) or IC Card@13.56 MHz (Optional)	ID Card@125 kHz (Standard) or IC Card@13.56 MHz (Optional)
Verification Speed	<0.3s @ Card	<0.3s @ Card	<0.3s @ Card	<0.3s @ Card
Touchless Recognition Distance	0-5cm @ Card	0-3cm @ Card	0-3cm @ Card	0-3cm @ Card
QR Code	/	/	/	/
Communication	XXX E/M: 26/35bit Wiegand output XXX D/LF: 66bit Wiegand output	RS-485 Wiegand	RS-485 Wiegand	RS-485 Wiegand
Visual Indicator	Multiple Colours LED: Power On: White (LED) ; Status: Red / Green (LED)	Multiple Colours LED: Power On: White (LED) ; Status: Red / Green (LED)	Multiple Colours LED: Power On: White (LED) ; Status: Red / Green (LED)	Multiple Colours LED: Power On: White (LED) ; Status: Red / Green (LED)
Audio Indicator	Multiple Tone Buzzer with Adjustable Intensity	Multiple Tone Buzzer with Adjustable Intensity	Multiple Tone Buzzer with Adjustable Intensity	Multiple Tone Buzzer with Adjustable Intensity
Operating Environment	Indoor	Indoor	Indoor	Indoor
Power Supply	DC 12V 1.5A	DC 12V 1.5A	DC 12V 1.5A	DC 12V 1.5A
Operating Temperature	-20°C to 65°C	-20°C to 65°C	-20°C to 65°C	-20°C to 65°C
Operating Humidity	10%-90%	10%-90%	10%-90%	10%-90%
Dimensions (L * W * H)	75mm * 116mm * 15mm	44.5mm * 111mm * 11mm	86mm * 86mm * 11.6mm	76mm * 123mm * 11.6mm
Gross Weight	0.2kg	0.2kg	0.26kg	0.26kg
Net Weight	0.14kg	0.04kg	0.12kg	0.13kg
Installation	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box / European Gang-Box)	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box / European Gang-Box)	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box / European Gang-Box)	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box / European Gang-Box)
Housing Material	PC + ABS Plastic	Aluminum Alloy Tempered glass surface	Aluminum Alloy Tempered glass surface	Aluminum Alloy Tempered glass surface
Ingress Protection Rating	IP65	IP65, IK04	IP65, IK04	IP65, IK04
Certifications	CE	ISO9001, ISO14001, CE, FCC	ISO9001, ISO14001, CE, FCC	ISO9001, ISO14001, CE, FCC



Smart Video Intercom Systems

Video intercom products are used in many occasions. Through the indoor monitor, user can view outside and control door lock, which brings user safety and convenience. Also it makes users communication with visitors more pleasant and intuitive. Making the world a safer place is our vision.

- IP Series
- 4-wire Series
- Kit Series



IP Series

Touch and Experience, Elevate Your Daily Life

IP Video Intercom systems are optimized for villa, apartment and multi-story buildings, supporting almost 10,000 residents and are centrally managed by ZKBio CVSecurity. This comprehensive system significantly enhances resident convenience and building safety.



Excellent Video Quality
2MP HD camera, WDR,
wide field of view, and
full-color video capture



Flexible Solution Options
Local area network
solution, cloud intercom
solution,
SIP intercom solution



Multiple Authentication
Methods Face recognition,
card, and PIN code



Centralized
Management
Managed through
ZKBioCV Security

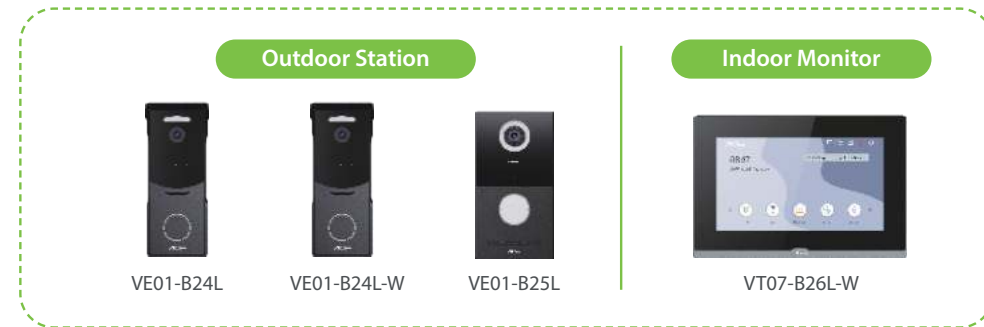


Mobile Control
Supports remote
intercom and door
unlocking via a
mobile app



Easy to Use Setup can
be completed
in just a few simple
steps

IP Villa Solution












IP Apartment Solution



IP Cloud Video Intercom Solution



Model	VEX-B24A	VEX-B24L	VEX-B21A	VEX-B21L	VEX-B25L
Appearance					
Display	4.3-inch TFT LCD	4.3-inch TFT LCD	4.3-inch TFT LCD	4.3-inch TFT LCD	/
Resolution	480 x 272	480 x 272	480 x 272	480 x 272	/
System	Android 6.0	Linux	Android 4.0	Linux	Linux
RAM	1GB	64MB	512MB	64MB	64MB
ROM	8GB	128MB	8GB	128MB	128MB
Front Panel	Aluminum+Tempered Glass	Aluminum+Tempered Glass	Aluminum	Aluminum	Aluminum+Tempered Glass
Button	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Power Supply	PoE+ (802.3at) or DC 12V/2A	PoE+ (802.3at) or DC 12V/2A	PoE+ (802.3at) or DC 12V/2A	PoE+ (802.3at) or DC 12V/2A	PoE+ (802.3at) or DC 12V/2A
Standby Power	8 W	1.5W	3W	1.5W	1.5W
Rated Power	16 W	9W	10W	9W	3.5W
Camera	2MP, CMOS, WDR	2MP, CMOS, WDR	2MP, CMOS	2MP, CMOS	2MP, CMOS
IR Sensor	Support	Support	Support	Support	Support
Wiegand Port	1	1	1	1	1
Ethernet Port	1 x RJ45, 10/100 Mbps adaptive	1 x RJ45, 10/100 Mbps adaptive	1 x RJ45, 10/100 Mbps adaptive	1 x RJ45, 10/100 Mbps adaptive	1 x RJ45, 10/100 Mbps adaptive
Door Entry	Face, IC (13.56MHz) & ID (125kHz) card, PIN code	IC (13.56MHz) & ID (125kHz) card, PIN code	Face, IC card (13.56MHz), PIN code, NFC	Face, IC card (13.56MHz), PIN code, NFC	IC (13.56MHz) & ID (125kHz) card, PIN code
Reset Button	1	1	/	/	1
RS485 Port	1	1	1	1	1
Relay Out	3	3	1	1	2
IP / IK Rating	IP65 / IK06	IP65 / IK06	IP65	IP65	IP65 / IK06
Installation	Flush mounting	Flush mounting	Flush mount	Flush mount	Wall mount
Surface Mounting DIM	295 x 133 x 43 mm	295 x 133 x 43 mm	380 * 158 * 55.7 mm	380 * 158 * 55.7 mm	188 x 88 x 34 mm
Working Temperature	-40°C to +55°C	-40°C to +55°C	-40°C to +55°C	-40°C to +55°C	-40°C to +55°C
Storage Temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Working Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Audio Codec	G.711	G.711	G.711	G.711	G.711
DTMF	RFC2833	RFC2833	RFC2833	RFC2833	RFC2833
Microphone	Built-in microphone	Built-in microphone	Built-in microphone	Built-in microphone	Built-in microphone
Speaker	8Ω / 1W	8Ω / 1W	8Ω / 1W	8Ω / 1W	8Ω / 1W
Video Codec	H.264	H.264	H.264	H.264	H.264
Video Resolution	up to 1920 x 1080	1280 x 720	1280 x 720	1280 x 720	1280 x 720
Viewing Angle	120°(H) / 80°(V) / 130°(D)	115°(H) / 75°(V) / 125°(D)	115°(H) / 75°(V) / 125°(D)	115°(H) / 75°(V) / 125°(D)	110°(H) / 60°(V) / 125°(D)
Max. Image Transfer Rate	1080p – 25fps	720p – 25fps	720p – 25fps	720p – 25fps	720p – 25fps
Light Compensation	LED white light	LED white light	LED white light	LED white light	LED white light
Protocol	SIP, UDP, TCP, RTP, RTSP, NTP, DNS, HTTP, DHCP, IPV4, ARP, ICMP	SIP, UDP, TCP, RTP, RTSP, NTP, DNS, HTTP, DHCP, IPV4, ARP, ICMP	SIP, UDP, TCP, RTP, RTSP, NTP, DNS, HTTP, DHCP, IPV4, ARP, ICMP	SIP, UDP, TCP, RTP, RTSP, NTP, DNS, HTTP, DHCP, IPV4, ARP, ICMP	SIP, UDP, TCP, RTP, RTSP, NTP, DNS, HTTP, DHCP, IPV4, ARP, ICMP

Model	VT07-B26L-W	VT07-B22L	VT10-B21L	VT10-B21A
Appearance				
Display	7-inch TFT LCD	7-inch TFT LCD	10-inch TFT LCD	10-inch TFT LCD
Screen	Capacitive touch screen	Capacitive touch screen	Capacitive touch screen	Capacitive touch screen
Resolution	1024 x 600	800 x 480	1024 x 600	1024 x 600
System	Linux	Linux	Linux	Android 6.0
RAM	128MB	64MB	64MB	1GB
ROM	128MB	128MB	128MB	4GB
Front Panel	Plastic	Plastic	Plastic	Plastic
Power Supply	PoE (IEEE802.3af) or DC 12V/2A	PoE (IEEE802.3af) or DC 12V/2A	PoE (IEEE802.3af) or DC 12V/2A	PoE (IEEE802.3af) or DC 12V/2A
Standby Power	2W	1.5W	1.5W	3W
Rated Power	9W	9W	9W	10W
Ethernet Port	2 x RJ45, 10/100 Mbps adaptive	1 x RJ45, 10/ 100 Mbps self-adaptive	1 x RJ45, 10/ 100 Mbps self-adaptive	1 x RJ45, 10/ 100 Mbps self-adaptive
WiFi	Support	/	/	/
TF Card Slot	1	/	/	/
RS485	1	1	1	1
Power Output	1 (12V/100mA)	/	/	/
Doorbell Input	8 (use any alarm input port)	8 (use any alarm input port)	8 (use any alarm input port)	8 (use any alarm input port)
Alarm Input	8	8	8	8
Installation	Surface Mounting	Surface Mounting	Surface Mounting	Surface Mounting
Dimension	195 x 130 x 14.5 mm	221.4 x 151.4 x 16.5 mm	270 x 168 x 15 mm	270 x 168 x 15 mm
Working Temperature	-10°C to +55°C	-10°C to +55°C	-10°C to +55°C	-10°C to +55°C
Storage Temperature	-40°C to +70°C	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
Working Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Audio Codec	G.711	G.711	G.711	G.711
Echo Cancellation	Support	Support	Support	Support
DTMF	RFC2833	RFC2833	RFC2833	RFC2833
Microphone	Built-in microphone	Built-in microphone	Built-in microphone	Built-in microphone
Speaker	8Ω / 1W	8Ω / 1W	8Ω / 1W	8Ω / 1W
Video Codec	H.264	H.264	H.264	H.264
Protocol	SIP, UDP, TCP, RTP, RTSP, NTP, DNS, HTTP, DHCP, IPV4, ARP, ICMP	SIP, UDP, TCP, RTP, RTSP, NTP, DNS, HTTP, DHCP, IPV4, ARP	SIP, UDP, TCP, RTP, RTSP, NTP, DNS, HTTP, DHCP, IPV4, ARP	SIP, UDP, TCP, RTP, RTSP, NTP, DNS, HTTP, DHCP, IPV4, ARP



4-wire Series

Secure Every Entry
Where Protection Begins

4-wire video intercom products are ideal for villas and apartments, offering a plug-and play solution with 4-wire technology. They enhance safety and convenience, providing a more intuitive and enjoyable communication experience.



Minimal Connection 4-wire
connection plug-and-play



More Direct Calling Direct press
buttons for more convenience



Flexible Configuration Supports
2 to 12 households

4-wire Series — Apartment Solution



Outdoor Station



VE02/3/4/6-A01

- Outdoor Station 700 line clarity
- 4-wire simulation
- 2/3/4/6 buttons are optional



VE08/10/12-A01

- Outdoor Station 700 line clarity
- 4-wire simulation
- 8/10/12 buttons optional

Indoor Monitor



VDPI-B3

- 7 inch display screen
- 4-wire analog



VDPI-B4

- 4.3 inch display screen
- 4-wire analog



Kit Series

Everything You Need in One Kit
Your Total Solution

Kit series is mainly for villa scenario application, including door Station and indoor Monitor, one package to solve your security needs, greatly convenient for you to install and use.



Indoor Monitor
VK07-CS1L Kit



Outdoor Station
VK07-CS1L Kit

4-wire Analog Video Intercom Kit



VK04-A50L Kit

- 4.3 inch TFT-LCD display screen
- 2-way audio communication over 4-wire analog
- No setup required, plug and play



VK07-A50L Kit

- 7 inch TFT-LCD display screen
- 2 million HD picture quality
- 2-way audio communication over 4-wire analog
- No setup required, plug and play

IP Video Intercom Kit



VK07-B51L Kit

- 2 million HD picture quality
- 7 inch touch display
- Support TF card
- Support 4-way IPC access
- Support 4-way outdoor station access
- One-touch call
- Support mobile APP remote control
- Support PoE
- No setup required, plug and play



VK07-B52L Kit

- 2 million HD picture quality
- 7 inch touch display
- Support TF card
- Support 4-way IPC access
- Support 4-way outdoor station access
- One-touch call
- Support mobile APP remote control
- Support PoE
- No setup required, plug and play
- Support IC card to open the door

4-wire Hybrid Video Intercom Kit



VK07-C51L Kit

- 7 inch IPS HD touch screen (1024 * 600)
- 2 million HD picture quality
- Support TF card
- Support a maximum of 2 analog security cameras
- Support setting Weather / calendar / standby wallpaper
- Support remote unlocking through ZSmart App
- Support night vision
- Support up to 4 indoor monitors / 2 outdoor stations
- No setup required, plug and play



VK10-C51L Kit

- 10 inch IPS HD touch screen (1024 * 600)
- 2 million HD picture quality
- Support TF card
- Support a maximum of 2 analog security cameras
- Support setting Weather / calendar / standby wallpaper
- Support remote unlocking through ZSmart App
- Support night vision
- Support up to 4 indoor monitors / 2 outdoor stations
- No setup required, plug and play



VK07-B53L Kit

- 2 million HD picture quality
- 7 inch touch display
- Support TF card
- Support 4-way IPC access
- Support 4-way outdoor station access
- One-touch call
- Support mobile APP remote control
- Support PoE
- No setup required, plug and play
- Support password, ID card to open the door



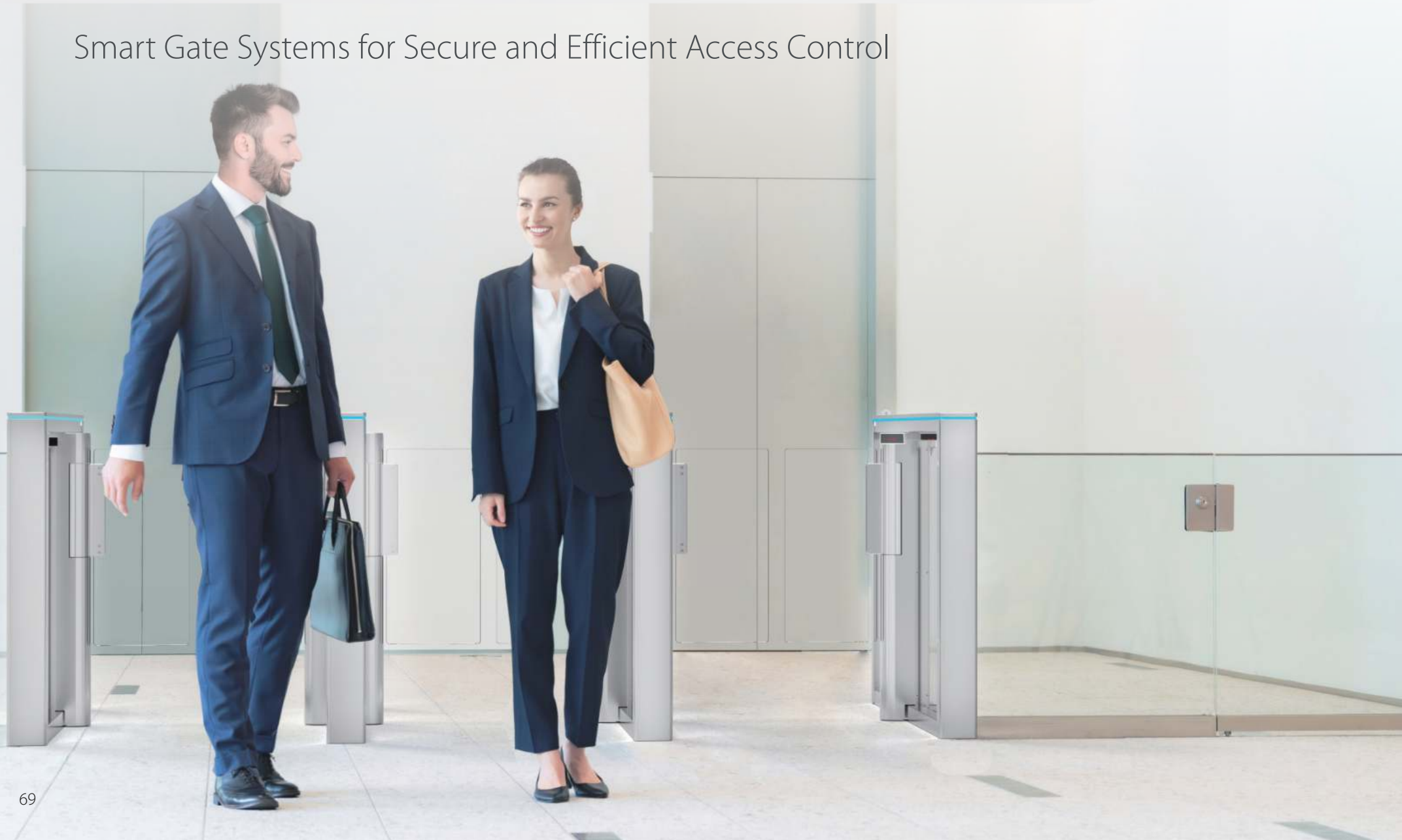
Smart Entrance Control Systems

Entrance control is the management of people. General management methods include access control system, parking management system and visitor management system using intelligent turnstiles. In different environments, different types of entrance control devices are required. For example, the tripod turnstiles and full height turnstiles are installed in public venues, and flap barrier turnstiles are often installed in private enterprises. ZKTeco commits to integrating biometrics into entrance control to provide more intelligent management solutions.



Swing Barrier Turnstile

Smart Gate Systems for Secure and Efficient Access Control



Comet Series

The Comet Series by ZKTeco is an innovative multi-credential speed gate featuring a sleek, transparent design that fits seamlessly into corporate settings. Available in single-lane and double wings versions, these gates combine advanced functionality with a lightweight yet robust chassis made of distinctive cast aluminum alloy.

6M

MCBF up to 6 Million Times



Standard With 660mm Optional
900mm



Featuring Newly Developed
Installation Rails That Can Be
Pre-installed



Saturn Series

Unveiling the ZKTeco Saturn Series, an innovative swing barrier turnstile designed for an unparalleled passage experience. With its sophisticated design, the Saturn Series is available in range of striking colors including Pearl Silver, Space Gray, and Bay Blue, Mist Brown and Carbon Black, making it blends seamlessly with both indoor and outdoor applications.



Remote Control



Facial Recognition



QR Code Recognition



Water and Dust
Proof Reached
up to IPX4



Pearl Silver / Space
Gray / Bay Blue/ Mist
Brown / Carbon Black



Lane Width
Between
600mm-900mm



RFID Recognition



MCBF up to 3
Million Times



Tripod Turnstile

Reliable Turnstile Solutions for Streamlined Access
and Enhanced Security





TS Plus Series

TS Plus Series is a basically tripod turnstile with simply function, which including TS1000 Plus and TS2000 Plus. This tripod turnstile's cabinet uses SUS304 stainless steel as standard material, which ensures long durability.



IPX4 Waterproof Grade



MCBF 2 Million Times



Easy to Set Up



Cost Effective on Customer Use
And Maintenance.



Draw Very Few Power

Model	Comet-S1000		Saturn-S1000		TS1000 Plus	TS2000 Plus
Appearance						
Visual Indicator	LED Strip Along the Lid (64 Colour RGB, Customizable) Steady Green = Normal Use Steady Red= Unit in Use Or No Passage Flashing Green = Emergency / Fire Exit Flashing Red= Alarm		Steady Green = Normal Use Steady Red = Door Closed		Steady Green = Normal Use Steady Red = Door closed	Steady Green = Normal Use Steady Red = Door closed
Audio Indicator	Internal Buzzer		Internal Buzzer		Internal Buzzer	Internal Buzzer
Display	1 or 2*7" ISP Touch Monitor (Under Mount Facial Recognition Version Only)		/		/	/
Lane Type	Single Lane		Single Lane		Single Lane	Single Lane
Lane Width	660mm (Standrad)	900mm (Optional)	550mm (Standard)	900mm (Optional)	550mm	550mm
Barrier Movement Type	Swing		Swing		Rotating	Rotating
Motor	Dc Brushless Motor		DC Brushless Motor		/	/
Clutch	Mechanical Clutch for Anti-panic / Anti-collision		Mechanical Clutch for Anti-Panic / Anti-collision		/	/
Lid Material	Tempered Glass (Black) (Standard)		Acrylic+2.5D Tempered Glass		SUS304 Stainless Steel	SUS304 Stainless Steel
Lid Options Authentication Methods	Streamlined Under Mount Options: Fingerprint / RFID / QR Code / (Fingerprint + RFID) / (Fingerprint + QR Code) / (Fingerprint+RFID+QR Code) / Facial Recognition with Display Top Mount Option: Mounting Pole (Compatible With Proface X Series / Speedface V5L / Elite Pass)		Streamlined Under Mount Options: Fingerprint / QR Code / Facial Recognition / RFID		Streamlined Under Mount Options: Fingerprint / RFID	Streamlined Under Mount Options: Fingerprint / RFID
Chassis Material	Cast Aluminium Alloy (T=3mm)		SPCC, Q235A, PC		SUS304 Stainless Steel (T=1.2mm)	SUS304 Stainless Steel (T=1.2mm)
Chassis Color	Silver (Standard), Gold (Optional)		Pearl Silver, Space Gray, Light Carbon Black, Gulf Blue, Silk Mist Brown		Silver-Gray	Silver-Gray
Door Leaf Material	Clear Acrylic: H630mm * W295mm (Standard) Clear Tempered Glass: H630mm * W295mm		Acrylic: H635mm * W250mm (Standard) H635mm * W429mm (Optional)		SUS304 Stainless Steel	SUS304 Stainless Steel
IR Sensors	8 Pairs (Standard) (High Position) 0 Pair (Low Position)		4 Pairs (Standard) (High Position)		/	/
Motherboard Function	System Configuration, Access Mode Configuration, Anti-pinch Configuration, Anti-tailgate Configuration etc.		System Configuration, Access Mode Configuration, Anti-pinch Configuration, Anti-tailgate Configuration etc.		Door Open Duration, Access Mode	Door Open Duration, Access Mode
Motherboard Communication	Fire Alarm Port(Relay)*1, RS-485 Port * 1,		Fire Alarm Port (Relay) * 1, RS-485 Port * 1		Fire Alarm Port (Relay) * 1, RS-485 Port * 1	Fire Alarm Port (Relay)*1, RS-485 port *1
Controller	PGIC Controller (Recommendation) Others Depends on Dimensions Fitting in (Optional)		Options: C3-200, InBio 260 Pro or Third-Party Devices		Options: C3-200, InBio 260 Pro or Third-Party Devices	Options: C3-200, InBio 260 Pro or Third-Party Devices





Model	Comet-S1000	Saturn-S1000	TS1000 Plus	TS2000 Plus
Credential Options	Under Mount RFID Reader: (Support Model: Proid series, Armatura EP10c & armatura EP20 series) Under Mount QR code Reader: QR500 Under Mount Fingerprint Reader: FR1200 / FR1500 Under Mount Facial Recognition Terminal: G4 Pro Top Mount Facial Recognition Terminal: ProFaceX / Elite Pass/ SpeedFace V5L	Under Mount RFID Reader: (Support Model: Pro ID Series, KR Series) Under Mount Fingerprint Reader: FR1200 / FR1500	Under Mount RFID Reader: (Support Model: Pro ID Series, KR Series) Under Mount Fingerprint Reader: FR1200 / FR1500	Under Mount RFID Reader: (Support Model: Pro ID Series, KR Series) Under Mount Fingerprint Reader: FR1200 / FR1500
Flow Rate	RFID: 30 Passengers Per Minute QR Code: 30 Passengers Per Minute Fingerprint: 20 Passengers Per Minute Face: 15 Passengers Per Minute	25-35 Passengers Per Minute	25 Passengers Per Minute	25 Passengers Per Minute
Footprint	1500mm * 115mm	1200mm * 150mm	100mm * 420mm	260mm * 1110mm
Accessibility	Under Mount Facial Recognition Version: Adult / Children / Disability Rest of The Versions: Adult / Children (With Care) / Disability (With Care)	Using credentials or wireless remoter control	Using Credentials or Wireless Remote Control, Wired Remote Control	Using Credentials or Wireless Remote Control, Wired Remote Control
Power Supply	110V / 220V ac@50-60hz	AC220+10%V 50Hz	110V / 220V AC@50 to 60 Hz, DC 12V	110V / 220V AC@50 to 60 Hz, DC 12V
Power Rating	20VA (Standby) 120VA (Operation)	20VA (Standby) 60VA (Operation)	10VA (Standby) 40VA (Operation)	10VA (Standby) 40VA (Operation)
Fire Signal	Input for Voltage Free Contact	Input for Voltage Free Contact	Input for Voltage Free Contact	Input for Voltage Free Contact
Noise Level	Less than 60dB	Less than 60dB	Less than 65dB	Less than 65dB
MTTR	Less than 30 minutes	Less than 60 minutes	Less than 60 minutes	Less than 60 minutes
MCBF	6 Million	3 Million	2 Million	2 Million
Weight	Gross Weight (130kg) Net Weight (100kg)	Gross Weight (60kg) Net Weight (45kg)	20kg	30kg
Dimension (L * W * H)	1500mm * 115mm * 1000mm	1200mm * 150mm * 980mm	780mm * 750mm * 1000mm	775mm * 1100mm * 980mm
Operating Temperature	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
Operating Humidity	0% to 85% RH (Non-condensing)	5% to 90% RH (Non-condensing)	20% to 80% RH (Non-condensing)	20% to 80% RH (Non-condensing)
Certifications	CE, FCC, UL294	CE, FCC, UKCA (Pending)	CE, FCC, UKCA (Pending), ISO 9001	CE, FCC, UKCA (Pending), ISO 9001
Ingress Protection Rating	IP65 (Barrier Only) (Waterproof and Dustproof) IK07 (Barrier Only) (Vandal Resistant)	IP56	IPX4	IPX4
Supported Software	ZKBio CVAccess / ZKBio CVSecurity / ZKEasyGo (Compatible with Software Only When Connected to The Control Panel)	ZKBio CVAccess / ZKBio CVSecurity / ZKEasyGo (Compatible with Software Only When Connected to The Control Panel)	ZKBio CVAccess / ZKBio CVSecurity (Compatible with Software Only When Connected to The Control Panel)	ZKBio CVAccess / ZKBio CVSecurity (Compatible with Software Only When Connected to The Control Panel)
Security Features	Intrusion, Tailgating, Piggybacking, Wrong Way Direction, Leave Aisle Timeout	Anti-tailgating	Anti-tailgating	Anti-tailgating
Application Environment	Indoor / Outdoor / Semi-outdoor	Indoor / Outdoor (If Sheltered)	Indoor / Outdoor (If Sheltered)	Indoor / Outdoor (If Sheltered)
Dimensions With Packing (L * W * H)	1600mm * 600mm * 1200mm	1240mm * 190mm * 1050mm (±5 mm)	380mm * 520mm * 1100mm	360mm * 1210mm * 1080mm



Security Inspection Systems

ZKTeco’s security inspection products offer a dependable and flexible intelligence security solution. We build a comprehensive security system to protect your entrance security, including People Inspection, Freight Inspection and Vehicle Inspection.



X-ray Inspection System

ZKX Series

The ZKX Series X-ray machine is the ideal system for screening baggage with increased performance, revealing liquid explosives, contraband, narcotics and weapons. The system is equipped with a high quality generator and detector which provides advanced image quality and unrivaled penetration.



ZKX5030A

- Widely usable for carry-on baggage
- Pseudo-color scanning image
- Fit through most doorways and elevators for fast relocation and installation
- Energy saving function



ZKX6550




- Widely usable for carry-on baggage
- Single screen and fingerprint console
- True-color scanning image
- Bidirectional Scan



ZKX100100

- Widely usable for large baggage
- Dual screen and fingerprint console
- True-color scanning image
- Bidirectional Scan
- Folding design for easy loading



Model		ZKX5030A	ZKX6550	ZKX100100
Appearance				
Physical Specifications	Dimensions (L * W * H)	1701mm * 796mm * 1150mm	2120mm * 980mm * 1381mm	3384mm * 1407mm * 1866mm
	Console Desk Dimension (L x W x H)	/	805mm * 900mm * 1320mm	1320mm * 900mm * 1320mm
	Tunnel Size (W x H)	500mm * 300mm	650mm * 500mm	1000mm * 1000mm
	Conveyor Speed	0.20 m/sec	0.20 m/sec	0.2-0.4m/sec
	Conveyor Load (Max. Load)	120kg (Adequate distribution)	180kg (Adequate distribution)	200kg (Adequate distribution)
	Conveyor Height	650mm	650mm	387mm
	Gross Weight (with Package)	Tunnel: 410kg Console Desk: NO	Tunnel: 680kg Console Desk: 105kg	Tunnel: 1150kg Console Desk: 135kg
	Net Weight	340kg	620kg	970kg
	Noise	53.8 dB(A)	53.8 dB(A)	55.8 dB(A)
	Monitor	21.5"@ Color LED Screen (1920 * 1080P)	21.5"@ Color LED Screen (1920 * 1080P)	21.5"@ Color LED Screen (1920 * 1080P)
	System Power	115/230 VAC ±10% , 60/50Hz	115/230 VAC ±10% , 60/50Hz	115/230 VAC ±10% , 60/50Hz
X-ray Generator and Image Performance	Steel Penetration	10mm Typical; 8mm Standard	38mm Typical; 36mm Standard	32 mm Typical; 30mm Standard
	Wire Resolution	36 AWG Typical; 34 AWG Standard	38 AWG Typical; 36 AWG Standard	38 AWG Typical; 36 AWG Standard
	Penetrate Definition	32 AWG	34 AWG	32 AWG
	Spatial Resolution	Horizontal Φ1.0mm \ Vertical Φ2.0mm	Horizontal Φ1.0mm \ Vertical Φ2.0mm	Horizontal Φ1.0mm \ Vertical Φ2.0mm
	Generator Cooling	Sealed Oil Bath with Forced Air / 100%	Sealed Oil Bath with Forced Air / 100%	Sealed Oil Bath with Forced Air / 100%
	Tube Voltage & Current	Voltage: 80KV, Current: 0.6mA	Voltage: 140KV, Current: 0.5mA	Voltage: 150KV, Current: 0.8mA
	Orientation	Vertically Upward	Vertically Upward	Vertically Downward
Options and Accessories	Options	Single Screen Console Operating Keyboard Bi-directional Scanning Passenger-package Linkage Anti Rat	Double Screen Console Energy Saving Function Eyes Tracking Anti Rat Intelligent Analysis Function Passenger-package Linkage	Energy Saving Function Anti Rat Intelligent Analysis Function Passenger-package Linkage

Model		ZKX5030A	ZKX6550	ZKX100100
Standard Functions	Standard Features	Single Energy Imaging (4 Colour) Pseudo-color Scanning Image Carry-on Baggage Screening Onboard Fingerprint Console Energy Saving Mode Support Platform Management Software ZKBio SIS View Previous / Next Bag Configurable Image Processing Keys Baggage Counter Date / Time Display System Maintenance Threat Image Projection (TIP) Density Threshold Alert (DTA) Explosive / Drug Auxiliary Alert Training	Multi Energy Imaging (4 Colour) True-color Scanning Image Carry-on Baggage Screening Onboard Fingerprint Console Single Monitor Console Desk Bi-directional Scanning Support Platform Management Software ZKBio SIS View Previous / Next Bag Configurable Image Processing Keys Baggage Counter Date / Time Display System Maintenance Threat Image Projection (TIP) Density Threshold Alert (DTA) Explosive / Drug Auxiliary Alert Training	Multi Energy Imaging (4 Colour) True-color Scanning Image Large Baggage Screening Folding Conveyor Design Onboard Fingerprint Console Duel Monitor Console Desk Bi-directional Scanning Support Platform Management Software ZKBio SIS View Previous / Next Bag Configurable Image Processing Keys Baggage Counter Date / Time Display System Maintenance Threat Image Projection (TIP) Density Threshold Alert (DTA) Explosive / Drug Auxiliary Alert Training
	Image Processing Functions	Perfect View (PV) Black / White (B / W) Inverse View (IN) High Penetration (HP) Low Penetrate (LP) Dynamic Scan (DS) Pseudo Color (PS) Organic Material (OM) Inorganic Material (IM) Suspicious Organics Enhancing (Z789) Adjusting Brightness Real-time Image Processing and Image Zoom (64x)	Perfect View (PV) Black / White (B / W) Inverse View (IN) High Penetration (HP) Low Penetrate (LP) Dynamic Scan (DS) Pseudo Color (PS) Organic Material (OM) Inorganic Material (IM) Suspicious Organics Enhancing (Z789) Adjusting Brightness Real-time Image Processing and Image Zoom (64x)	Perfect View (PV) Black / White (B / W) Inverse View (IN) High Penetration (HP) Low Penetrate (LP) Dynamic Scan (DS) Pseudo Color (PS) Organic Material (OM) Inorganic Material (IM) Suspicious Organics Enhancing (Z789) Adjusting Brightness Real-time Image Processing and Image Zoom (64x)
Operating Environment	Storage Temperature	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
	Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C
	Relative Humidity	5 to 95% non-condensing	5 to 95% non-condensing	5 to 95% non-condensing
Regulatory Compliance	Regulatory Standards	EN 61000-6-4:2007+A1:2011 EN 61000-6-2:2005 EN ISO 12100:2010 EN 60204-1:2006+A1:2009/AC:2010 ANSI C63.4 & 47 CFR PART 15	EN 61000-6-4:2007+A1:2011 EN 61000-6-2:2005 EN ISO 12100:2010 EN 60204-1:2006+A1:2009/AC:2010 ANSI C63.4 & 47 CFR PART 15	EN 61000-6-4:2007+A1:2011 EN 61000-6-2:2005 EN ISO 12100:2010 EN 60204-1:2006+A1:2009/AC:2010 ANSI C63.4 & 47 CFR PART 15
	Film Safety	ASA/ISO1600	ASA/ISO1600	ASA/ISO1600
	Radiation Leak Dosage	0.1 μ Gy/h (5cm from the Surface)	0.1 μ Gy/h (5cm from the Surface)	0.2μ Gy/h (5cm from the Surface)
Health & Safety	Compliance	FDA And Equivalent International Standards; Radiation Emissions Below Regulatory Limits	FDA And Equivalent International Standards; Radiation Emissions Below Regulatory Limits	FDA And Equivalent International Standards; Radiation Emissions Below Regulatory Limits



Smart Parking Systems

There has been a growing number of vehicles with the rapid development of the global economy and living standards. To manage vehicles efficiently, the number of parking lots has dramatically increased. By adopting License Plate Recognition Products (LPR), Ultra-High Frequency (UHF) products, Parking Barrier products, and Parking Guidance products, the system offers convenient user experiences from the entrance to the parking space.





Water And Dust Proof
Reached up to IP54



Standard with
3m / 4.5m / 6m Barrier Boom



Support up to 500
Remote Control Capacities



Support LED
Status Control



Low Voltage Dc24v
Brushless Motor



Tempered Glass Door
with LED Indicator Design



ZKEasyGo App
Quick Debugging Control








With CE, IEC Certification



Left and Right
Direction Reversible



Bluetooth and
WiFi Compatible

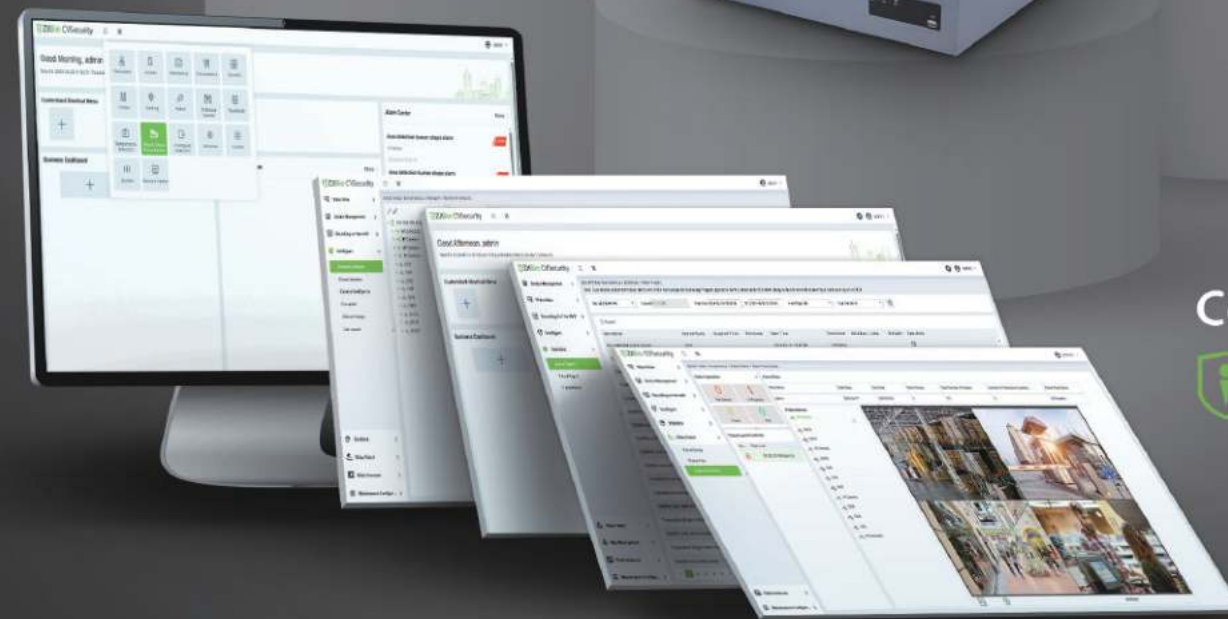
Model	BGM400 Series	BGM500 Series	BGM1000 Series	BGM2000 Series	BG-LCD100
Appearance					
Motor Type	Brushless DC Motor + Three Stage Gear Reducer	Brushless DC Motor + Three stage gear reducer	Brushless DC Motor + Three Stage Gear Reducer	Brushless DC Motor + Three Stage Gear Reducer	Brushless DC Motor + Three Stage Gear Reducer
Opening / Closing Speed	1.5~6s	1.5~6s	1.5~6s	0.6~6s	0.6s~3s
Boom Length	3m / 4.5m / 6m	3m / 4.5m / 6m	3m / 4.5m / 6m	3m / 4m	3m / 4m
Boom Type	Standard Version: Straight Boom (3m) Telescopic Boom (4.5~6m)	Standard Version: Straight Boom (3m) Telescopic Boom (4.5~6m) Optional Version: LED or Rubber Straight Boom (3m~4.5m) Folding Boom (4.5m, Customizable) Fence Boom (4.5m, Customizable)	Standard version: Straight Boom (3m) Telescopic Boom (4.5~6m) Optional Version: LED or Rubber Straight Boom (3m~4.5m) Folding Boom (4.5m, Customizable)	Standard Version: Round Straight Boom	Standard Version: Round Straight Boom
Boom Material	1.0mm Aluminium Alloy	1.0mm Aluminium Alloy	1.0mm Aluminium Alloy	1.5mm Aluminium Alloy	1.5mm Aluminium Alloy
Chassis Material	1.5mm SPCC	1.5mm SPCC	2.0mm SPCC	2.0mm SPCC	2.0mm SPCC
Boom Connector	Not Support Anti-collision	Optional Anti-collision	Optional Anti-collision	Support Anti-collision	Support Anti-collision
APP Control	/	/	Support	Support	Support
LCD Screen	/	/	/	/	Support
Cmmunication	RS-485	RS-485 (Optional WIFI / Bluetooth)	WIFI / Bluetooth, RS-485	WIFI / Bluetooth,RS-485	WIFI / Bluetooth, RS-485
Chassis LED Indicator	Not Support	Support	Support	Support	LCD
Emergency Open	Manual	Manual	Auto or Manual	Auto or Manual	Auto or Manual
Remote Control Capacity	<500 pcs	<500 pcs	<500 pcs	<500 pcs	<500 pcs
MCBF	2 Million Times	2 Million Times	3 Million Times	5 Million Times	5 Million Times
Warranty Period	1 Year	1 Year	2 Year	2 Year	2 Year
Application	Medium Traffic Intensity (Average Daily Traffic Flows≤5000, Medium Parking Lot (51-300 / Motor Vehicle, 251-500 / Non-motor Vehicle), Hotel, Hospital, Park Scenic Spot)	Medium Traffic Intensity (Average Daily Traffic Flows≤5000, Medium Parking Lot (51-300 / Motor Vehicle, 251-500 / Non-motor Vehicle), Hotel, Hospital, Park Scenic Spot)	Medium Traffic Intensity (Average Daily Traffic Flows≤5000, Medium Parking Lot (51-300 / Motor Vehicle, 251-500 / Non-motor Vehicle), Hotel, Hospital, Park Scenic Spot)	Ultra-high Traffic Intensity (Average Daily Traffic Flow≥10000 Vehicles, Super Large Parking Lot (>1000 / Motor Vehicle), CBD Area, Transportation Hub Center, Airport)	Ultra-High Traffic Intensity (Sverage Daily Traffic Flow≥10000 Vehicles, Super Large Parking Lot (>1000 / Motor Vehicle), CBD Area, Transportation Hub Center, Airport)
Intensity	1.5s: 20000 Times/Day 100% 2.5s: 12000 Times/Day 90% 5s: 5800 Times/Day 80%	1.5s: 20000 Times/Day 100% 2.5s: 12000 Times/Day 90% 5s: 5800 Times/Day 80%	1.5s: 20000 Times/Day 100% 2.5s: 12000 Times/Day 90% 5s: 5800 Times/Day 80%	0.6s: 48000 Times/Day 100% 2.5s: 12000 Times/Day 90% 5s: 5800 Times/Day 80%	0.6s: 48000 Times/Day 100% 2.5s: 12000 Times/Day 90% 5s: 5800 Times/Day 80%





Smart Video Surveillance Systems

ZKTeco has built the completed video surveillance product lines including smart IP cameras, Network Video Recorders, Network PTZ and related Switches, LED monitors, Decoders, Splicing screens, Network cables, etc, and comprehensive solution based on ZKBio CVAccess and ZKBio CVsecurity empowered by ZKTeco cutting edge deep-learning algorithm of Human / Vehicle intelligence to satisfy various requirements and applications.



Compatible with
 **ZKBio** CVSecurity



ZKBio Sense Smart Hybrid Light Series

The front-end cameras of intelligent video surveillance solution



The IP cameras can accurately detect and recognize 3 key types of targets: humans, vehicles and objects. They can effectively filter out useless objects, such as animals, leaves, shadows, and rain, to avoid false alarms. Meanwhile, the built-in hybrid integrated optical coupler and intelligent switching logic can greatly reduce unnecessary light pollution in the environment, which is greener and energy-saving.



Smart Hybrid Light
(White Light & IR Integrated Light)
for Reducing Light Pollution
and Saving Energy



Embedded Intelligent
Classification Algorithm
(Human / Vehicle)



Remote Viewing with Mobile
Application Compatible
with ZKBio CVSecurity



Metal Casing Design
and Reached IP67 Protection
Rating Standard for Waterproof
and Dust Proof



Perimeter Protection



Support Multiple Browsers Web Client



H.265 HEVC



120dB True WDR



ZKBio Sense Series Network Video Recorder

The back-end storage station of intelligent video surveillance solution

The NVR can support 24/7 continuously recording all video and intelligent alarm events generated by the front-end IP Cameras, and stored safely into hard drives by human & vehicle classification. After the event, the NVR can allow users to efficiently retrieve and playback the target video evidence, especially for the key types of targets: humans, vehicles and objects, to focus more on the effective video clips and alarm events.



Embedded With Smart
Human and Vehicle
Classification Algorithm



Multiple Intelligent Video
analytics Functions
(Up to IPC) Displaying



Support Multiple
Web Browsers Login



P2P Cloud
Service Supported



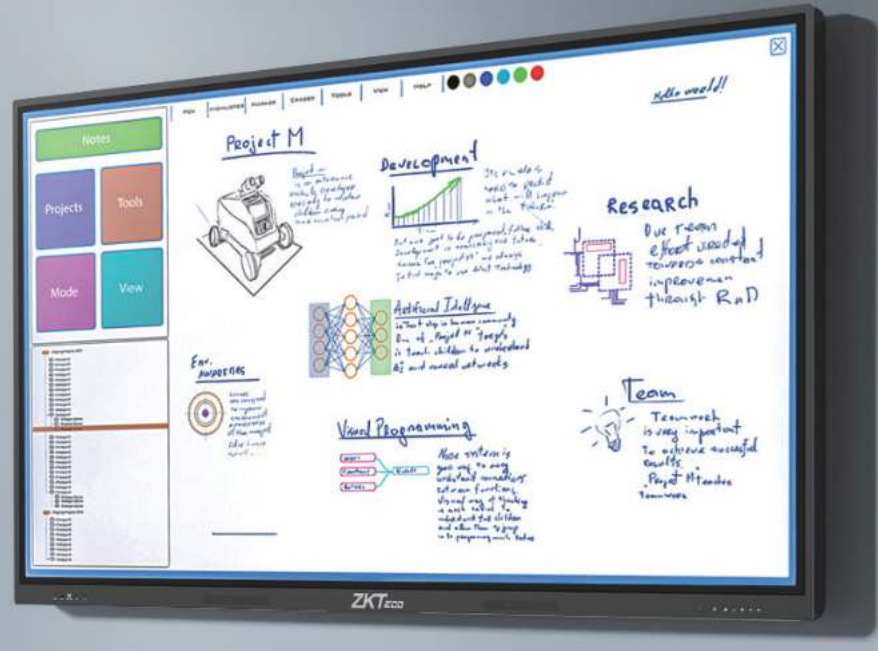
Interactive Whiteboard Systems

ZKTeco interactive whiteboards are widely applied to education and conference scenarios, which integrated with screen sharing, whiteboard writing, video conferencing and document viewing functions. The 4K UHD screen displays delicate images and multi-level colors. The smooth touch screen writing experience allows unlimited extension of ideas. The built-in camera makes video conference more convenient and efficient.



Interactive Whiteboard

Powerful Interaction, Efficient Collaboration



4K UHD Display



Tempered Glass Coated
With AG Surface



Dual-system Switchover



Support Multi-touch
Point And Writing



Built-in Speaker



6 or 8 Microphones
Array (Except BE series)



Built-in 8MP or 13MP
Camera(Except BE series)






Support Wireless Projection
By PC/PA/Mobile Phone



Wired Projection By
HDMI Cable or Type-C



Standard With Stylus Pen
And Wall-mounted Bracket

Model		ZK-IWB65/75/86BM	ZK-IWB65/75/86BP	ZK-IWB65/75/86BE
Appearance				
LCD Screen	Size	65-inch / 75-inch / 86-inch	65-inch / 75-inch / 86-inch	65-inch / 75-inch / 86-inch
Screen Type	Backlight	D-LED	D-LED	D-LED
Display Parameters	Resolution	3840 × 2160 (pixels)	3840 × 2160 (pixels)	3840 × 2160 (pixels)
	Brightness	400cd/m ² (typ.)	350cd/m ² (typ.)	400cd/m ² (typ.)
Camera	Pixel	8 Mega Pixels	13 Mega Pixels	/
	Face Tracking	Support	/	/
	Sound Localization	Support	/	/
Microphone	Array Quantity	8 Microphones Array	6 Microphones Array	/
Speaker		2 * 16W (180Hz~20KHz)	2 * 16W (180Hz~20KHz)	2 * 16W (200Hz - 20kHz)
Touch	Touch Points	Android: 20 Multi-touch Points Windows: 40 Multi-touch Points	20 Multi-touch Points	Android: 20 Multi-touch Points Windows: 40 Multi-touch Points
Connectivity	Front Port	USB 3.0 * 2, Type-C * 1	USB 3.0 * 2, Type-C * 1, Touch * 1, HDMI IN: 1	USB 3.0 * 2, Type-C * 1, Touch-USB * 1, HDMI2.0 * 1
	Bottom Port	AUDIO IN * 1, VGA * 1, LAN IN/OUT * 1, RS232 * 1, MIC IN * 1, HDMI OUT * 1, AUDIO OUT * 1, SPDIF * 2	VGA IN * 1, AUDIO IN * 1, AUDIO OUT * 1, S/PDIF OUT * 1	LAN IN/OUT * 2, RS232 IN * 1, MIC IN * 1, AUDIO OUT * 1, SPDIF OUT * 1
	Right Side Port	Touch-USB * 3, DP * 1, HDMI IN 1 2.0 * 1, HDMI IN 2 2.0 * 1, Type-C * 1, USB 2.0 * 1, USB 3.0 * 2	LAN IN/OUT * 1, RS232 * 1, USB 3.0 * 2, Touch * 1, HDMI IN: 2, HDMI OUT * 1, USB 2.0 * 1	Touch-USB * 2, HDMI IN * 2, USB 2.0 * 1, USB 3.0 * 1
Mainboard	CPU	Quad core ARM Cortex A73 + Quad core Cortex A53	Quad core ARM Cortex A55	Quad core ARM Cortex A55
	GPU	MaliG52 MP8	MaliG52 MP2	MaliG52 MP2
	RAM	8GB	4GB	4GB
	ROM	64GB	32GB	32GB
	OS	Android 11.0	Android 11.0	Android 13.0
WiFi	Main Chipset	Wi-Fi 6	Wi-Fi 6	Wi-Fi 5
	WiFi Standard	802.11 ax/b/g/n/ac	802.11 ax/b/g/n/ac	802.11 ax/b/g/n/ac
	Bluetooth	2.1+EDR/4.2/5.2	2.1+EDR/4.2/5.2	2.1+EDR/4.2/5.1
NFC Module	Standard	ISO/IEC 14443 A/ISO/IEC 14443 B	/	/





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