

# PRODUCT CATALOGUE

BIOMETRICS & COMPUTER VISION

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ZKTeco Co., Ltd (hereinafter referred to as ZKTeco) is a globally renowned enterprise with biometric verifications as its core techniques, which dedicates itself in the three industries including **Biometric Verification Core Technique Empowerment**, **Smart Entrance & Exit "Person + Car + Object" Software Platform Empowerment**, and **ZKTeco+ Smart Office Cloud Platform Empowerment**, and providing total services to the users of global public services, enterprise-level users and personal users.

ZKTeco has approximately 3,500 employees globally, among them, there are around 1,000 R&D staff and 600 foreign staff. The enterprise owns 45 branches and subsidiaries in China, and 48 branch organizations in Hong Kong, Macau, Taiwan, and overseas (As of 1st May 2020).

ZKTeco has various centers for development, design, and innovations in Silicon Valley, Europe, India, Dongguan, Xiamen, and Dalian. At present, ZKTeco's techniques and smart terminals have been applied by most 500 global top enterprises, and its business has already covered more than 100 countries and regions.

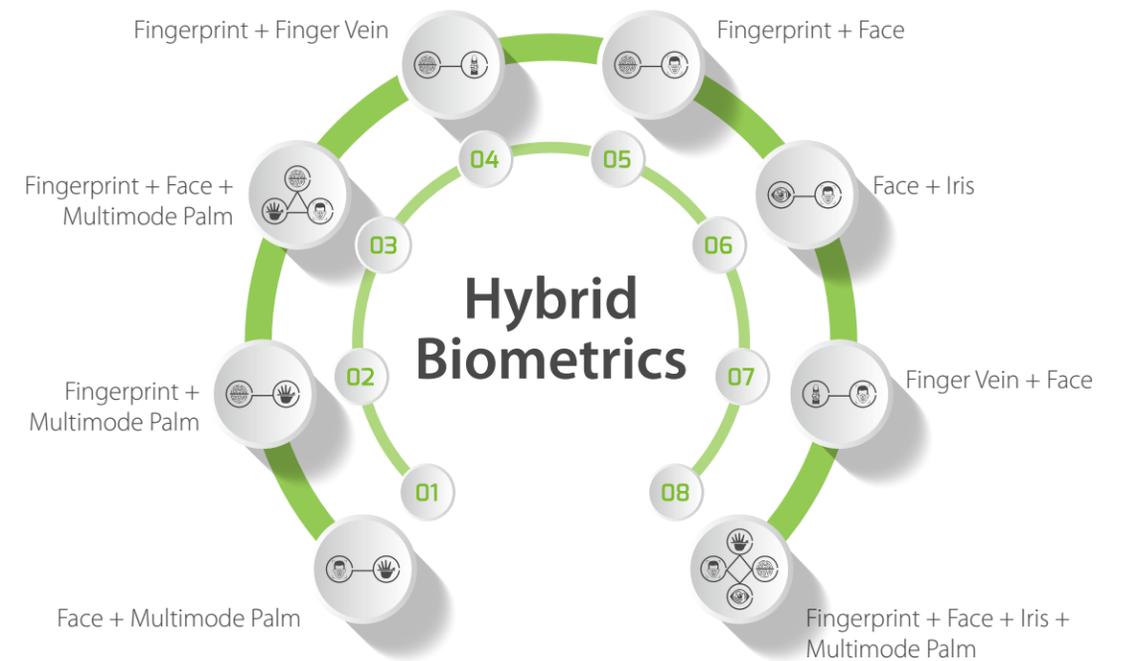
ZKTeco upholds the vision of "Responsibility, Integrity, Pragmatism, and Excellence", wishes to change the world with technology, and make a safer and wiser living and social development.

## COMPANY INTRODUCTION

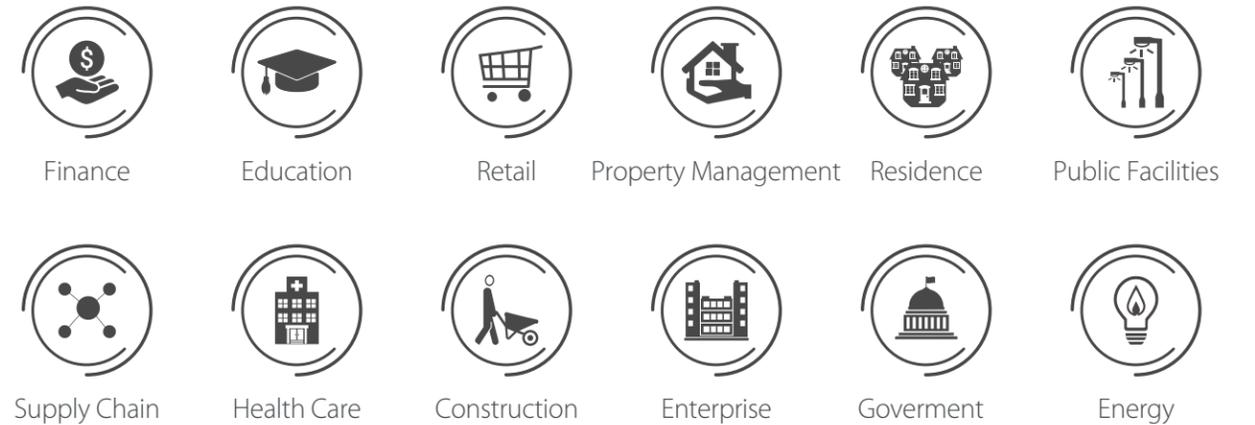


## Core Technology

### Bio4 HybridBio Verification Technology



## Application



## ZKTeco Strength



Nearly 1000 R&D engineers



More than 600 salespeople



More than 600 foreign employees



More than 600 technical consultants



More than 1000 workers



90+ Global Branch Offices

20+ Global Exhibition

3500+ Global Signed Clients

## ZKTeco Alliance



## Main Business



Empowerment Integrated Business based on Biometric Verification Core Techniques (Smart Identity Authentication Application)



Smart Entrance & Exit "Person + Car + Object" Software Platform Empowerment Integrated Business (Smart Entrance Control Application)

ZKTeco+ Smart Office Cloud Platform Empowerment Integrated Business (Smart Office Application)





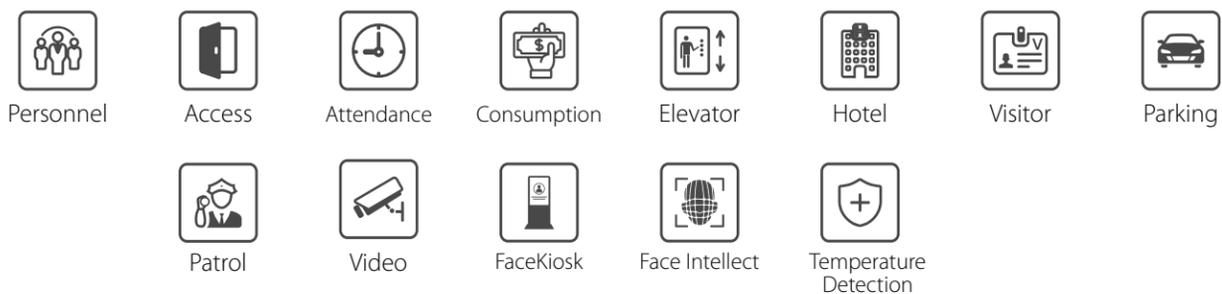
## Green Label Series

- Quad-core Processor
- Faster Computing Speed
- Super-large Memory
- Larger Capacity



# ZKBioSecurity

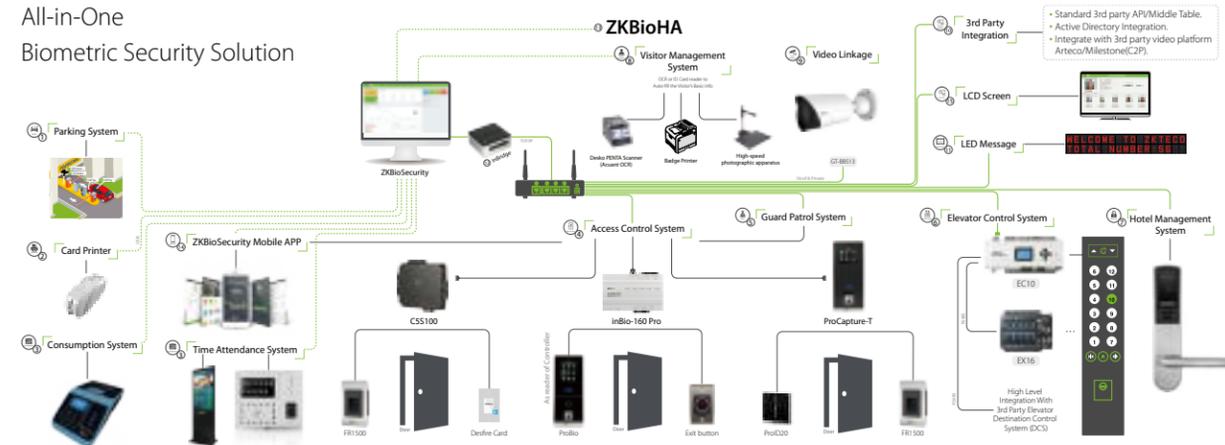
All-in-One Biometrics Security Solution



ZKBiosecurity, an "all-in-one" web security platform developed by ZKTeco, has become more optimized and professional. It homes superb security functions such as FP online registration, QR code registration, HTTPS-encrypted communication, LCD screen for a lobby to real-time display the access event records. Provide abundant API for integration. Supports approval flow management and advertisement in T&A module. Supports advanced access control functions for green label standalone devices etc. A newly added consumption module provides an overall solution for a canteen. Fully compatible with the innovative SilkID - FBI Certified (PIV07100) - fingerprint sensor and the Green Label Premium Series, up to 66 bits flexible card formats, fully supports visible light facial recognition device series. ZKBioSecurity platform can be applied to projects in different sizes with multi-biometrics and integrated solutions to enhance user security levels.

## Solution:

All-in-One  
Biometric Security Solution

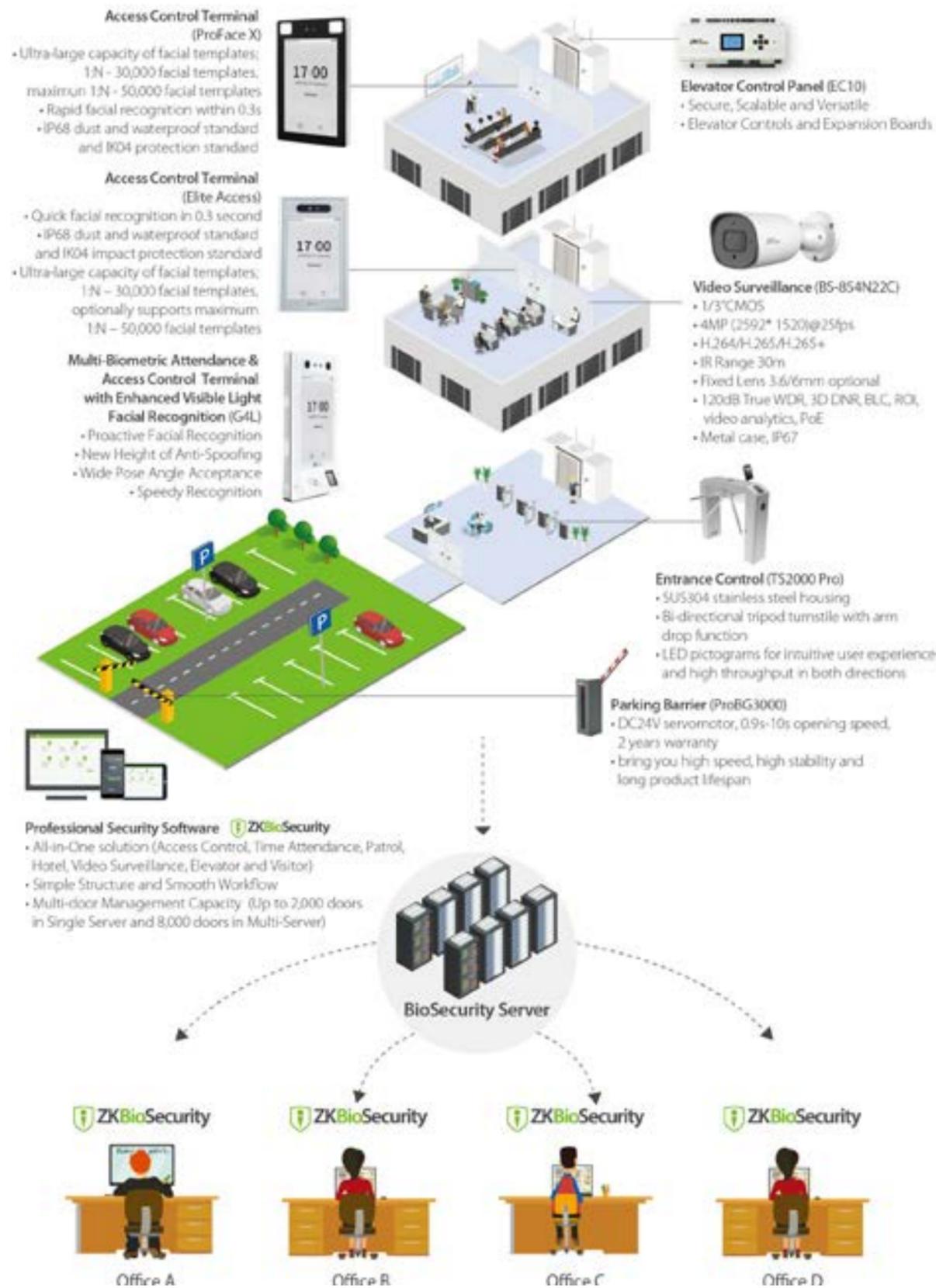


## Features:

- |  |  |  |  |  |                                   |
|--|--|--|--|--|-----------------------------------|
|  | Consumption Management (New Module)                    |  | All-in-One Biometric Security Solution |  | Web-Based Platform                |
|  | Data Auto-Backup Function                              |  | Extra Large Doors Management Capacity  |  | Email Notifications               |
|  | Time Zone Settings for Exit Button and Auxiliary Input |  | Time & Attendance                      |  | Hotel Module                      |
|  | Offline Elevator Control                               |  | LPR Camera for Parking                 |  | Support ONVIF Surveillance Device |
|  | Flexible Verification Modes                            |  | Door Activation or Deactivation        |  | Global Anti-Passback and Linkage  |
|  | Mobile APP   |  | Offline Elevator Control               |  | OCR                               |

- Supports visible light facial recognition device
- Up to 2,000 doors in single server and unlimited doors in multi-server
- Supports ZKBioSecurity Mobile Client for various operations
- Advanced access control features(Global Anti-Passback, Global Linkage, Global Interlock, etc.)
- Supports LCD screen for lobby to real-time display the event records
- Supports T&A devices, doors, and LPR camera to generate the T&A logs
- Supports both LPR camera and UHF readers for the parking system
- Video integration compatible with 3rd party devices
- Supports Acuant OCR
- Integrated with Artec video software and C2P middleware and connect with Milestone
- Flexible 3rd party API and Active Directory integration to integrate with 3rd party software
- Supports ZKBioHA high availability system, to ensure 24/7 continuity system operation

# "All-in-One" Web-Based Biometric Security Management Platform



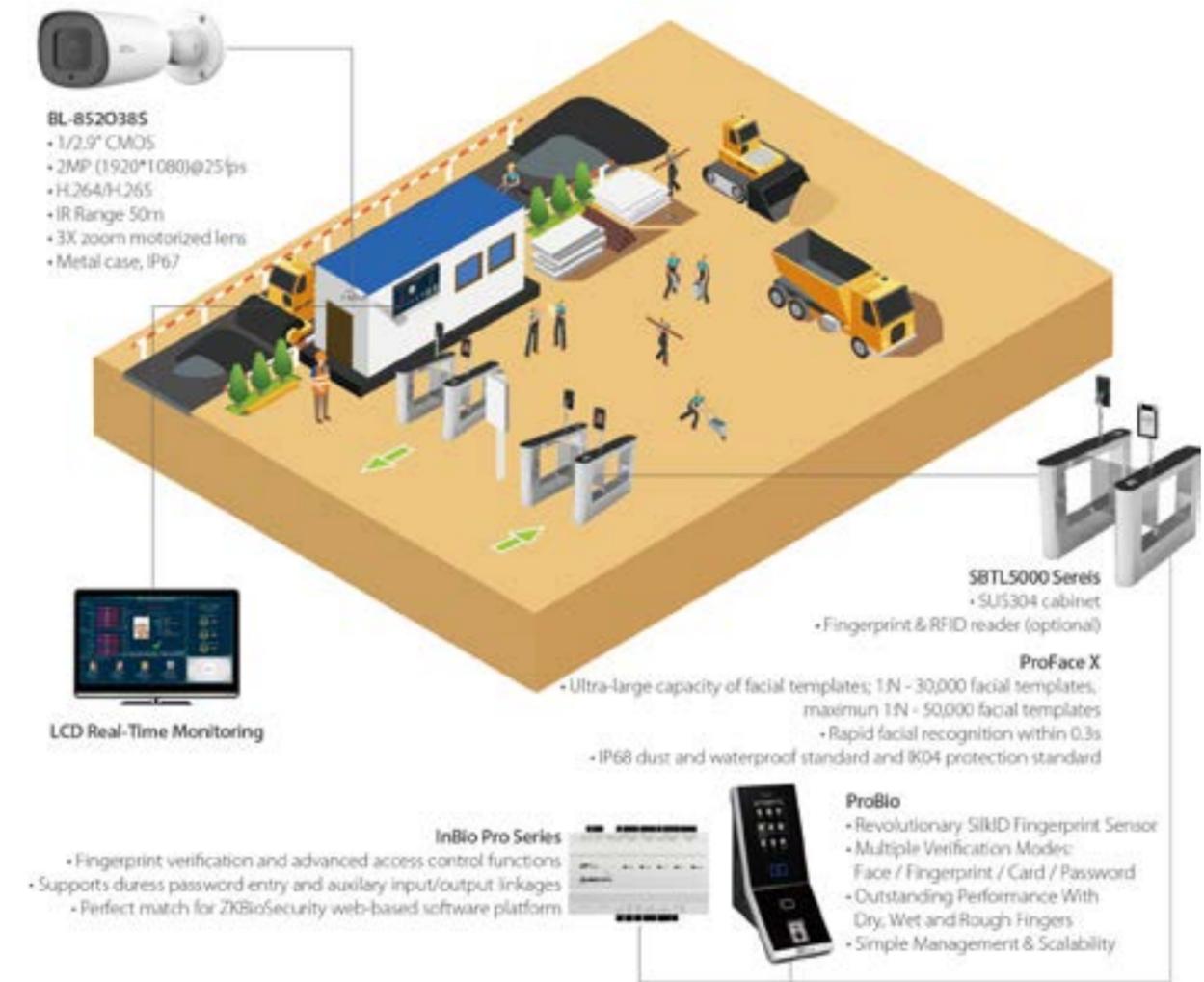
# ZKBioSecurity Parking Management Solution

There has been an increasing number of parking lots and vehicle management areas beginning to use License Plate Recognition (LPR) products and Ultra-high Frequency (UHF) products provide a convenient user experience. While using the LPR products with no parking cards required, the automatic license plate recognition enables fast vehicle access to parking lots. The UHF solution will help to reduce the inconvenience of punching the card which is more useful for car's application.



# ZKBioSecurity Construction Site

Integrated with ZKBioSecurity biometrics and personnel identification, ZKBioSecurity Construction Site is a newly added work management and construction site management module. This system can effectively manage registered workers, monitoring workers' attendance and access control details in real-time, which truly realizes the intelligent integrated management of workers and site security.



## Green Label Access Control Panel



### InBio Pro Series

- TCP /IP, RS485
- Webserver
- User & Card: 60,000
- Fingerprint: 20,000
- Transactions: 100,000
- ID / MF / DESFire
- Door: 1 / 2 / 4
- Wiegand Reader: 2 / 4 / 4
- RS485 Reader: 8ea
- AUX In: 1 / 2 / 4
- AUX Out: 1 / 2 / 4

## Green Label Access Control Standalone Device

### ProFace X

- Large capacity of facial templates: 30,000 (1:N); 50,000 (optional)
- Users/Card Capacity: 50,000
- Transaction Capacity: 1,000,000; 2,000,000 (optional)
- User Photos: 30,000
- Event Photos: 10,000
- Rapid facial recognition within 0.3s in a 2.5m distance
- IP68 dust and waterproof and IK04 protection standard
- Supplement light with adjustable brightness
- 2MP CMOS camera with WDR function
- Video intercom
- 8-inches (400 lux) IPS touch LCD
- Working temperature: -30°C ~ 60°C (-22°F ~ 140°F)



## Green Label Readers



ZKTeco provides various RS485 and Wiegand readers that works perfectly with ZKTeco access controllers.

### Elite Series

- Large capacity of facial templates: 30,000 (1:N); 50,000 (optional)
- Transaction Capacity: 1,000,000
- User Capacity: 50,000
- User Photos: 20,000
- Event Photos: 10,000
- Rapid facial recognition within 0.3s in a 2.5m distance
- IP68 dust and waterproof and IK04 protection
- Corrosion Resistant (GB/T2423.17-2008)
- Supplement light with adjustable brightness
- 2MP CMOS camera with WDR function
- Video intercom
- 8-inches touchscreen with 400 lux
- Working temperature: -30°C ~ 60°C (-22°F ~ 140°F)



## ProRF (RFID Only)



Model	ProRF
Users / Cards Capacity	60,000 (Standard), 100,000 (Optional)
Transactions	600,000
Communication	TCP / IP, RS232/RS485, Wiegand Input/Output, Security Relay Box
Operating Temperature	-20°C ~ 65°C (-4°F ~ 149°F)

## ProRF-T (RFID Only)

Model	ProRF-T
Users / Cards Capacity	50,000
Transactions	100,000
Communication	TCP/IP, RS485 (For Slave Reader), USB Host, Wiegand Input / Output, Security Relay Box
User/Event Photos	3,000 / 7,000
Mobile Access	NFC & BLE



## ProCapture-WP Waterproof Access Control Terminal

- IP65 waterproof & dustproof
- 20,000 Fingerprints; 10,000 User & Card
- Transactions 100,000
- Optional: SilkID Sensor (PIV)



## ProCapture-T (Fingerprint + RFID)

Model	ProCapture-T
Users / Cards Capacity	20,000
Fingerprint Capacity	20,000
Transactions	100,000
User/Event Photos	3,000 / 7,000
Access Control Functions	Lock, Alarm, Aux. In, Exit Button, Door Sensor Doorbell



## inPulse+ (Fingerprint & Vein + RFID)

Model	inPulse+
Card Capacity	2,000
Vein & Fingerprint Capacity	1,500
Transactions	100,000
Communication	TCP / IP, USB-Host, Wiegand In / Out, SRB
Access Control Functions	Lock, Alarm, Aux. In, Exit Button, Door Sensor, Doorbell

## ProCapture-X (Fingerprint + POE)

- POE (Standard IEEE 802.3at)
- SilkID Fingerprint Sensor
- Optional Wi-Fi

Model	ProCapture-X
Users / Cards Capacity	50,000
Fingerprint Capacity	20,000
Transactions	500,000
Communication	TCP/IP, RS485, USB host, Wiegand Input / Output, Wi-Fi (optional)
Access Control Functions	Lock, Alarm, Aux. In, Exit Button, Door Sensor, Doorbell
Special Function	POE (Standard IEEE 802.3at)



## ProBio & ProFAC (RFID + Face & RFID + Face + Fingerprint)

Model	ProBio	ProFAC
Card Capacity	10,000	10,000
Fingerprint Capacity	4,000	N/A
Face Capacity	2,000 (1:N); 4,000 (1:1)	
Transactions	100,000	
User / Event Photos	4,000 / 2,000	
Communication	TCP / IP, RS485 (for slave reader), USB-Host, Wiegand In / Out, SRB	
Access Control Functions	Lock, Alarm, Aux. In, Exit Button, Door Sensor, Doorbell	





# BioTimeCloud

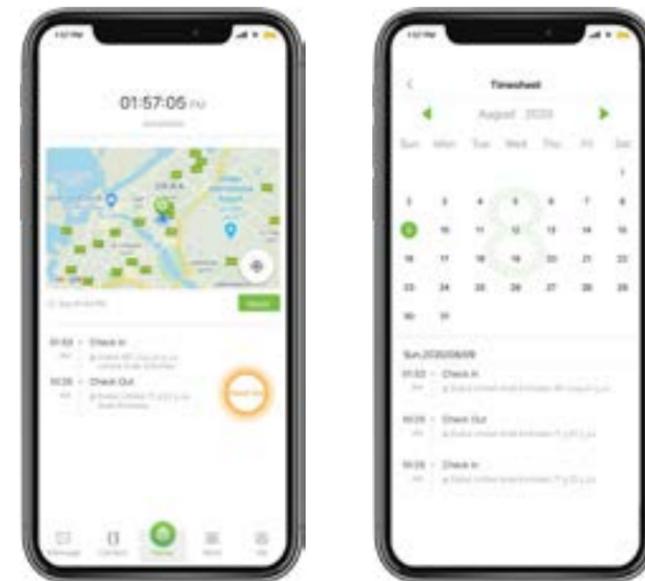
## Cloud-Based Time Attendance Solution



### Features

- Real-Time Location Tracking
- Multiple Location Assignment
- Attendance Policies Management
- Mobile Application and Geofencing
- Daily Activity Monitoring
- Attendance Approvals
- Leave Management
- Real-Time Attendance Report Calculation

## BioTimeCloud Mobile Application



Download the mobile application:

iOS



Android



- Real-Time Location Tracking
- Workplace Selection
- Geofencing Mobile Punches
- Device Management
- Timecard
- Requests and Approvals

BioTimeCloud is a cloud-based time attendance solution that lets you manage and organize your workforce effectively wherever you are without having any physical server.

With a powerful AWS database storage, you can make sure that all your data are protected. It ensures the availability and confidentiality of your data and provides end-to-end privacy and security.

### Why BioTimeCloud?



#### HIGH-LEVEL SECURITY

With AWS cloud storage, all your data is highly secured and protected.



#### EASY SETUP

No need to setup up a costly physical server. Access real-time data anywhere.



#### SCALABILITY

Upgrade your storage needs without purchasing & installing expensive upgrades yourself.



#### ACCESSIBILITY

Access your important data anytime & anywhere without any dynDNS or public IP needed.



#### MAINTENANCE-FREE

Subscription includes time attendance functions, a mobile application, and updates.



#### ONLINE SERVICE & SUPPORT

Get help from our dedicated and well-trained support team with no additional charges.

# BioTime 8.5

## Web-Based Time & Attendance Management Software



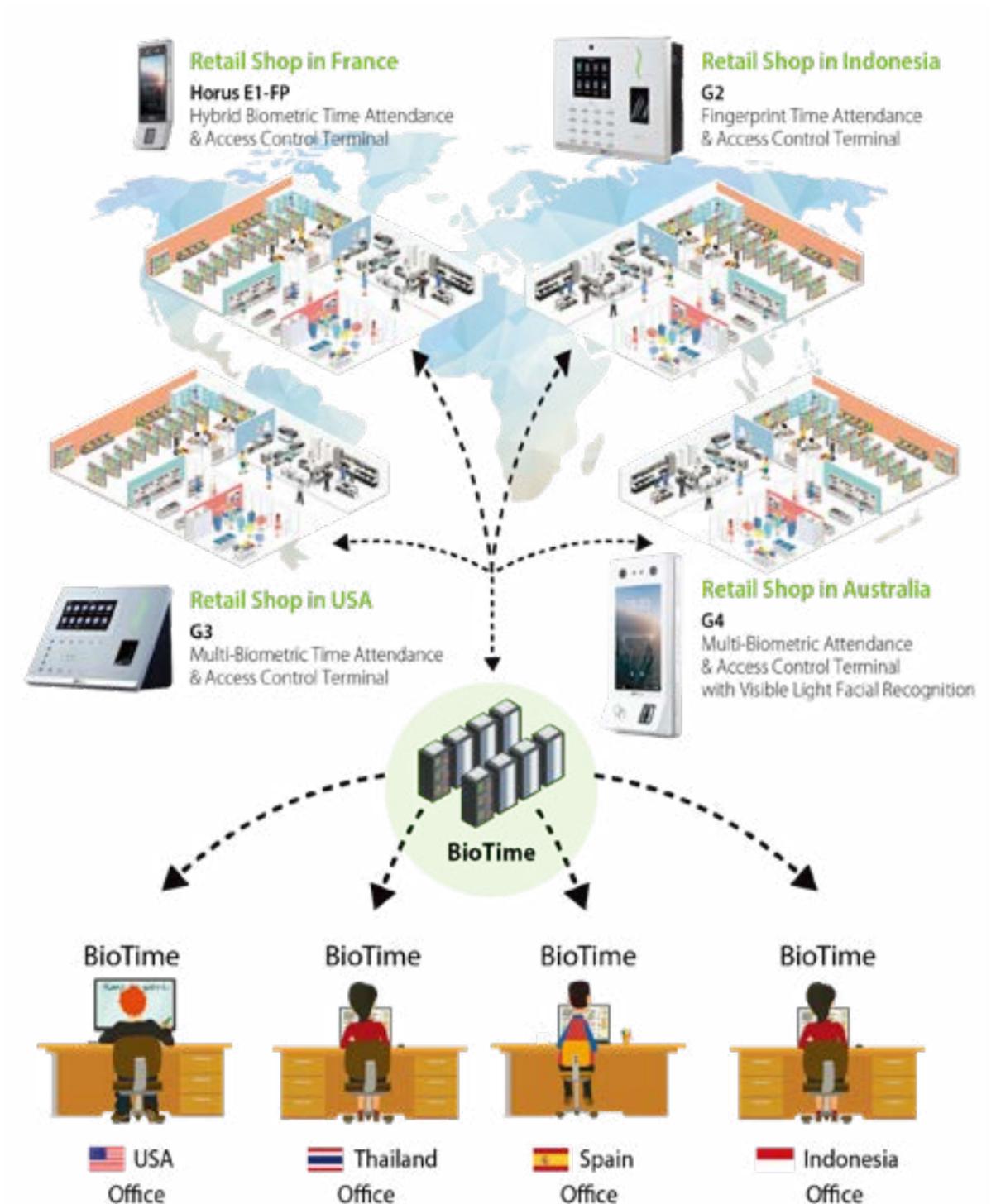
BioTime 8.5 is a powerful web-based time attendance software which provides a stable communication for thousands devices through Ethernet / Wi-Fi / GPRS / 3G.

- WhatsApp Notifications
- Auto Synchronizes Biometric Templates by Area
- Multiple Approvals & Email Alerts
- Multiple Admin Privilege
- Flexible Shift Schedule & Smart Shift
- Employee Self Service
- Attendance Calculation & Reports
- Geofencing Mobile Punches
- Supports Access Control
- Easy Integration by API
- Payroll Management
- Mobile Application

Software Specifications			
System Architecture	Server / Browser		
Database	PostgreSQL (Default), MS SQL Server 2005/2008/2012/2014 (Recommended) / My SQL(5.0.54) / Oracle 10g/11g/12c		
Supported OS	Windows 8/8.1/10, Windows Server 2003/2008/2012		
Suggested Browsers	IE 11+ / Firefox 27+ / Chrome 33+		
Monitor Resolution	1024 x 768 or Above		
Hardware Requirements			
Device	100	200	500
CPU	Intel i3 Quad Core	Intel i5 / Magny Cours	Intel i7 / Magny Cours
RAM	4G	8G	16G
Storage	Available space of 100G or above. (We recommend using NTFS hard disk partition as the software installation directory.)		

\*If above 500, please contact ZKTeco.

## Web-Based Multi-Location Centralized Time Management Solution



# Green Label Time Attendance Device



## G4L

- Revolutionary SilkID fingerprint sensor
- Visible Light Facial Recognition
- Communication: TCP/IP, Wi-Fi, Wiegand In/Out, RS485
- Facial recognition speed  $\leq 0.5s$
- Facial recognition distance 0.5m ~ 3m
- 10,000 Face, 10,000 Fingerprint, 10,000 Cards, 10,000 Users
- Transactions: 1,000,000
- Standard Functions: TCP/IP / Wi-Fi / Lock Relay Output / Door Sensor / Alarm Output / Exit Button / Wiegand Input / Wiegand Output / RS485 / ID Card
- Optional Functions: Built-in POE / Legic Card / MF Card
- 7-inch touch screen, 1280\*720 Pixel
- 2MP WDR low light camera
- OS: Linux

## G3 Plus

- Face identification operating under strong sunlight and dark environment (0 ~ 60,000 lux. Illuminance)
- Wi-Fi / 3G, Ethernet and USB (client / host) communication
- Latest facial 9.0 algorithm
- User & Card (optional): 10,000
- 5,000 Fingerprint, 3,000 face (1:N), 4,000 face (1:1)
- Transactions 100,000
- Multiple Verification Modes: Face / Fingerprint / Card / Password
- Outstanding performance with dry, wet, and rough fingers
- Simple management & scalability
- Alive finger detection, duplicate face detection
- Battery (2,000 mAH)
- POE (Standard IEEE 802.3at)
- External printer



## G4

- Revolutionary SilkID fingerprint sensor
- Visible Light Facial Recognition
- Liveness face detection
- Facial recognition speed  $\leq 1s$
- Facial recognition distance 0.5m ~ 3m
- 10,000 Face, 10,000 Fingerprint, 10,000 Cards
- Transactions: 1,000,000
- Standard Function: TCP/IP / Wi-Fi / Lock Relay Output / Door Sensor / Alarm Output / Exit Button / Wiegand Input / Wiegand Output / ID Card
- Optional Functions: MF Card
- 7-inch touch screen, 1280\*800 Pixel
- 2MP binocular camera
- 2GB DDR3 RAM
- 16GB ROM



## G2

- Communication: TCP/IP, USB Host / Client, Wiegand Input / Output
- User & Card Capacity: 20,000
- Fingerprint Capacity: 20,000 (Standard), 40,000 (Optional)
- Transaction: 200,000
- Optional : HID / Mifare Card Reader, External Printer, Wi-Fi / 3G



## G3 Pro

- Stores up to 12,000 face, 20,000 fingerprint, 6,000 palm, 20,000 cards
- Advanced access control features
- Alive Face / Palm Detection
- Optional Function: HID Proxy / Mifare Card Reader, Wi-Fi / 3G, Battery, Built-in POE



# Computer Vision

ZKTeco Computer Vision product line is based on the central control core face recognition technology, launched visible light attendance & access control devices, and FaceKiosk devices. In addition to providing a stable firmware platform, it also provide firmware customization development, technical support, solution output, and other related services for business partners.

## Visible Light Facial Recognition Time Attendance and Access Control Terminals

### Features

- Visible light facial recognition
- Metallic casing and advance access control
- SilkID sensor and RFID optional
- Video Intercom
- Android OS or Linux OS
- Dual camera for better anti-spoofing
- Advance access control for high security scenarios



SilkID Fingerprint Sensor



Proactive Facial Recognition



Wide Pose Angle Acceptance



Visible Light Facial Recognition



New Height of Anti-Spoofing



Touchless for Better Hygiene



Multiple Verification Methods



Fast Recognition Speed

### ProFace X [P]

- Ultra-large capacity of facial templates for 1:N - 30,000 facial templates, maximum 1:N - 50,000 facial templates (optional)
- Huge capacity of palm templates; 1:N - 5,000 palm templates
- Anti-spoofing algorithm against print attack (laser, color and B/W photos), videos attack, and 3D mask attack
- Intelligent energy-saving design; precisely evaluates the distance (2.5m) between the user and the device by a microwave detector before waking up the recognition terminal
- 2MP CMOS sensor camera with WDR function, which enables the terminal to recognize faces under extremely lighting conditions (0.5 lux to 50,000 lux)
- Wide range of working temperature (-30 ~ 60°C; -22 ~ 140°F)
- IP68 dust and waterproof standard and IK04 protection standard
- OS: Linux
- Video Intercom



### SpeedFace-V5L [P]

- Enhanced Visible Light Facial Recognition & Palm Recognition
- Anti-spoofing algorithm against print attack (laser, color and B/W photos), videos attack and 3D mask attack
- Multiple Verification: Face / Palm / Fingerprint / Card / Password
- Supplement light with adjustable brightness
- OS: Linux
- Face Capacity: 6,000
- Palm capacity: 3,000
- Fingerprint Capacity: 6,000 (Standard), 10,000 (Optional)
- Card Capacity: 10,000 (Optional)
- Video Intercom



## SpeedFace-V4L

- Enhanced Visible Light Facial Recognition & Palm Recognition
- Anti-spoofing algorithm against print attack (laser, color and B/W photos), videos attack and 3D mask attack
- Multiple verification methods: Face / Palm / Card / Password
- Available card modules: 125kHz ID card (EM) / 13.56MHz IC card / HID Card / Felica Card
- Supplement light with adjustable brightness
- 800 faces, 800 palms, 1,000 cards
- Video Intercom
- OS: Linux



## FaceDepot-7BL

- 7-inch Touch LCD screen
- Enhanced Visible Light Facial Recognition
- Anti-spoofing algorithm against print attack (laser, color and B/W photos), videos attack and 3D mask attack
- Multiple Verification: Face / Fingerprint / Card
- 125KHz ID Card & 13.56MHz IC card and Fingerprint optional
- Supplement light with adjustable brightness
- OS: Linux
- Face Templates Capacity: 10,000
- Fingerprint Capacity: 10,000 (Optional)
- Card Capacity: 10,000 (Optional)
- Transactions: 200,000
- Video intercom



## Wireless Facial Recognition Time Attendance Terminal

### Horus E1 / Horus E1-RFID / Horus E1-FP

- Supports 4G, Wi-Fi, Bluetooth, USB, and GPS
- Verification Methods: Face / Face+RFID / Face+RFID+Fingerprint
- IPS touch LCD, 720\*1280 pixels
- OS: Android



## FaceDepot-7A

- 10,000 face, 10,000 cards (optional), 10,000 users
- 100,000 logs capacity
- 7-inch LCD with anti-explosion cover
- Ultrasonic distance detected sensor 50cm ~ 150cm adjusting
- Semi-outdoor installation: Channel installation / Stand column installation

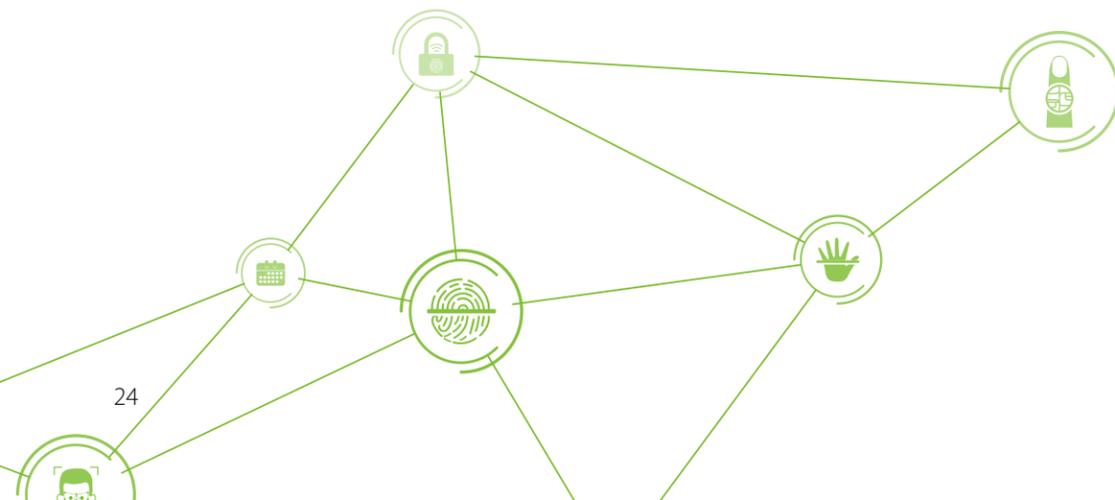
## FaceDepot-7B

- Enhanced Visible Light Facial Recognition
- Multiple verification methods: Face / Fingerprint / Card
- Available card modules: 125kHz ID card (EM) / 13.56MHz IC card
- 10,000 face templates capacity, 10,000 fingerprint templates capacity
- Card Capacity: 10,000 (optional)
- OS: Android



## SpeedFace-V5

- 5-inch touch screen
- Advance Access Control function
- Face + FP + ID / IC Card (Optional) Verification
- Capacities: 10,000 face; 10,000 fingerprint, 10,000 RFID (Optional)
- OS: Android
- Communication: TCP/IP, Wi-Fi (Optional), RS232/485 for external reader, Wiegand In/Out



# Self-service Visitor Management Solution

## FaceKiosk-H13A, FaceKiosk-H13C[TD]

- Supports body temperature detection
- Support for multiple modules, IC Card, fingerprint, printer and QR code scanner
- Strong flexibility and adaptability in applications
- Support self-service visitor management firmware
- Support Devices OEM

### Hardware

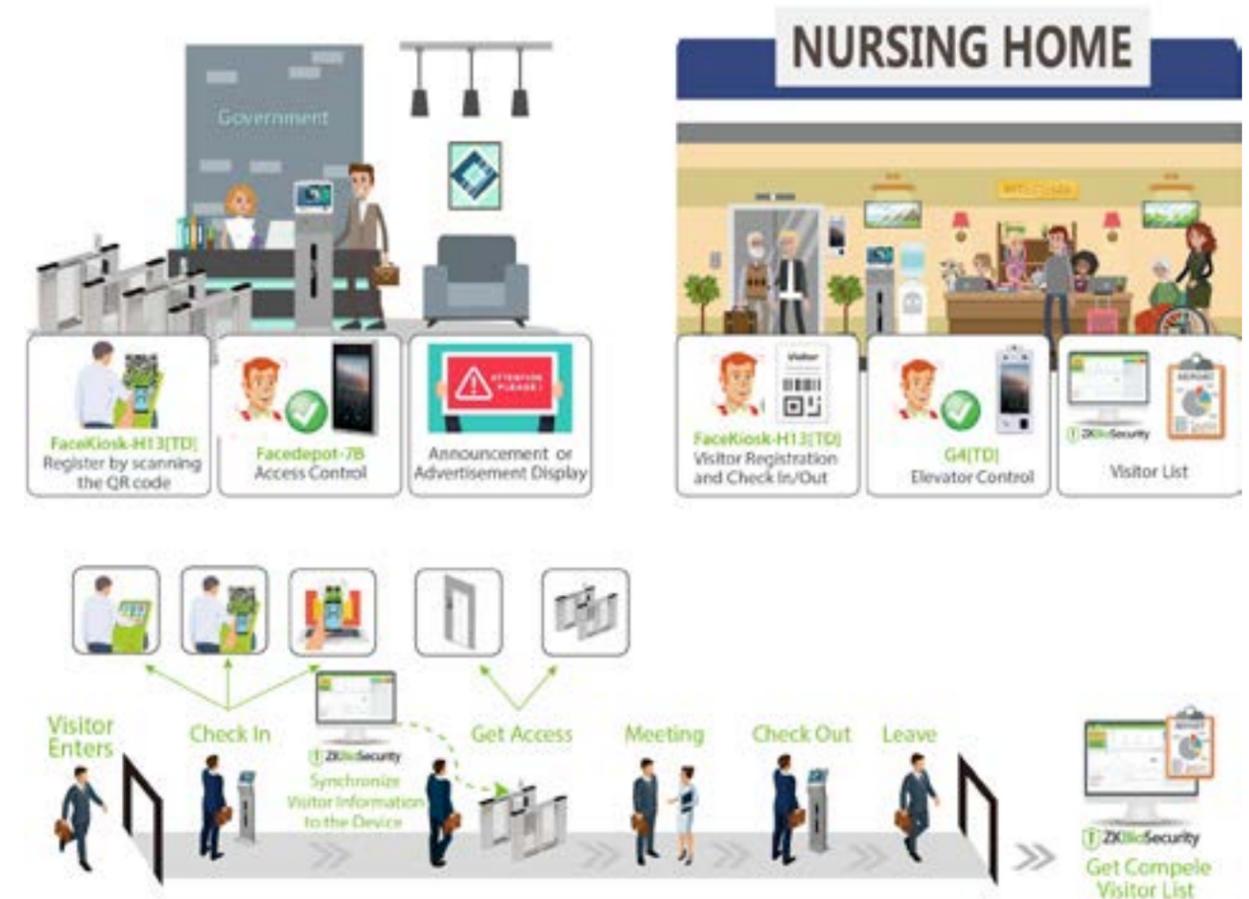
- 13.3-inch Touch Screen
- CPU: Quad-core A17 2.0GHZ
- Memory: DDR3 2GB RAM / 16G ROM
- Communication: TCP/IP, USB Host
- Operating System: Android 5.1.1

### Capacity

- User 10,000
- Face Template 10,000
- Fingerprint 10,000
- Transactions 100,000



# Solution Application



## FaceKiosk-V32T

- Body temperature detection
- Support build-in printer
- Strong flexibility and adaptability in applications
- Support self-service visitor management firmware

### Hardware

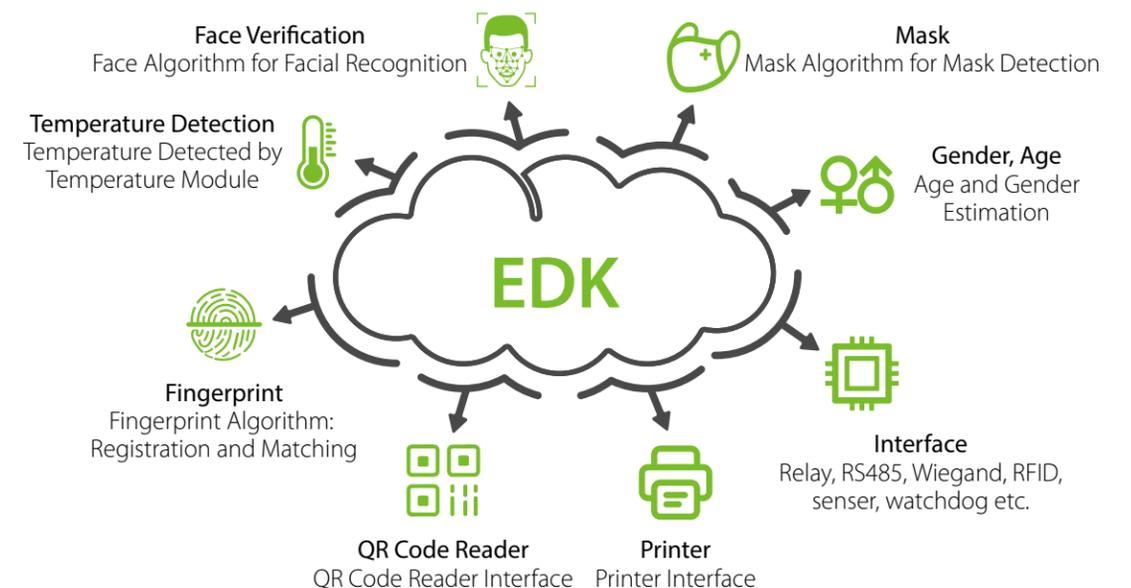
- 32-inch Touch Screen
- CPU: Quad-core A17 2.0GHZ
- Memory: DDR3 4GB RAM / 32G ROM
- Communication: TCP/IP, USB Host, Wi-Fi, Bluetooth
- Operating System: Android 7.1.2

### Capacity

- User 10,000
- Face Template 10,000
- Transactions 100,000



ZKTeco provides EDK embedded development tool kit and adjustment tools, supporting various programming languages and editing functions, for clients' convenience, to flexibly and efficiently develop their applications. Android EDK is suitable for developers and integrators to develop their applications, like visitor management system, school system, hotel system, building management, property management, and other applications on our equipment.



# Time Attendance and Access Control with Body Temperature Detection Terminals



## ProFace X [TI]

- Ultra-large capacity of facial templates for 1:N verification: 30,000 (standard); max. 50,000 (optional)
- Huge capacity of palm templates; 1:N - 5,000 palm templates
- Multiple Verification Methods: Face / Palm / Fingerprint / Password
- Thermal Imaging Temperature Detection, 0.1s High Speed Temperature Detection, measurement distance of 30 – 120cm
- Wide range of working temperature (16°C ~ 35°C; 60.8°F ~ 95°F)
- Facial verification available with masks
- Communication: TCP/IP, Wiegand In/Out, Wi-Fi (Optional), RS485/RS232
- 2MP WDR low light camera
- Users: 50,000
- Transactions: 1,000,000; 2,000,000 (Optional)



## SpeedFace-V5L [TD]

- Enhanced Visible Light Facial Recognition & Palm Recognition
- Huge capacity of palm templates; 1:N - 3,000 palm templates
- 6,000 face; 6,000 (standard), 10,000 (optional) fingerprint
- Anti-spoofing algorithm against print attack (laser, color and B/W photos), videos attack and 3D mask attack
- Multiple Verification: Face / Palm / Fingerprint / Card / Password
- Better hygiene with touchless biometric authentication, temperature detection, and masked individual identification



## ProFace X [TD]

- Ultra-large capacity of facial templates for 1:N - 30,000 facial templates, maximum 1:N - 50,000 facial templates (optional)
- Huge capacity of palm templates; 1:N - 5,000 palm templates
- Anti-spoofing algorithm against print attack (laser, color and B/W photos), videos attack, and 3D mask attack
- Intelligent energy-saving design; precisely evaluation of the distance (up to 2.5m) between the user and the device by a microwave detector before waking up the recognition terminal
- 2MP starlight CMOS sensor camera with WDR function
- 8" touch screen with 400 lux, which offers high visibility under strong and direct light
- Wide range of working temperature (16°C ~ 32°C; 60.8°F ~ 89.6°F)
- Better hygiene with touchless biometric authentication, temperature detection, and masked individual identification



## SpeedFace-V5L [TI]

- Thermal Imaging Temperature Detection, 0.1s high speed detection, measurement distance of 30 – 120cm
- Multiple Verification Methods: Face / Palm / Fingerprint / Password
- Temperature Measurement Accuracy:  $\pm 0.3^{\circ}\text{C}$  ( $\pm 0.54^{\circ}\text{F}$ ), tested in a distance of 80cm (2.63ft) under 25°C (77° F) environment
- Temperature Measurement Range: 20°C ~ 50°C (68°F ~ 122°F)
- Face Capacity: 6,000
- Palm Capacity: 3,000
- Fingerprint Capacity: 6,000 (Standard); 10,000 (Optional)
- Transactions: 200,000



## G4 [TD]

- Android Multi-Biometric Facial Recognition Terminal with Temperature & Mask Detection Module
- Multiple Verification Methods: Face / Fingerprint / Password
- Face Capacity: 10,000
- Fingerprint Capacity: 10,000
- Card Capacity: 10,000
- Transactions: 1,000,000
- 7-inch touch screen, 1280\*800 pixels
- 2MP binocular camera



## Temperature Detection Module

Used for Temperature Detection, applicable to both T&A and A&C devices of ZKTeco



## TDM95E

- USB Communication
- Temperature Measurement Distance: 3cm to 5cm
- Temperature Measurement Range: 32.0°C to 42.9°C or 89.6°F to 109.22°F
- Deviation:  $\pm 0.3^{\circ}\text{C}$  or  $\pm 0.54^{\circ}\text{F}$



## TDM95

- RS232 / RS485 / USB Communication
- Temperature Measurement Distance: 1cm to 15cm
- Temperature Measurement Range: 32.0°C to 42.9°C or 89.6°F to 109.22°F
- Deviation:  $\pm 0.3^{\circ}\text{C}$  or  $\pm 0.54^{\circ}\text{F}$

# SMART OFFICE

ZKTeco+ Smart Office Cloud Platform Empowerment  
Integrated Business (Smart Office Application)





# Time Attendance

ZKTeco is committed to develop and integrate cutting edge Hybrid-Biometric, RFID, and Wireless technologies into its time attendance solutions. ZKTeco provides a full range of solutions including various fingerprints, RFID, face and palm verification, time clocks, portable time clocks, time and attendance management software, etc. ZKTeco can meet the demands of all companies in different sizes.



## BioTime 8.5

### Web-Based Time & Attendance Management Software



BioTime 8.5 is a powerful web-based time attendance software which provides a stable communication for thousands devices through Ethernet / Wi-Fi / GPRS / 3G.

-   
WhatsApp Notifications
-   
Auto Synchronizes Biometric Templates by Area
-   
Multiple Approvals & Email Alerts
-   
Multiple Admin Privilege
-   
Flexible Shift Schedule & Smart Shift
-   
Employee Self Service
-   
Attendance Calculation & Reports
-   
Geofencing Mobile Punches
-   
Supports Access Control
-   
Easy Integration by API
-   
Payroll Management
-   
Mobile Application

Software Specifications			
System Architecture	Server / Browser		
Database	PostgreSQL (Default), MS SQL Server 2005/2008/2012/2014 (Recommended) / My SQL(5.0.54) / Oracle 10g/11g/12c		
Supported OS	Windows 8/8.1/10, Windows Server 2003/2008/2012		
Suggested Browsers	IE 11+ / Firefox 27+ / Chrome 33+		
Monitor Resolution	1024 x 768 or Above		
Hardware Requirements			
Device	100	200	500
CPU	Intel i3 Quad Core	Intel i5 / Magny Cours	Intel i7 / Magny Cours
RAM	4G	8G	16G
Storage	Available space of 100G or above. (We recommend using NTFS hard disk partition as the software installation directory.)		

*\*If above 500, please contact ZKTeco.*

## Hybrid Biometric Time Attendance & Access Control Terminal with Enhanced Visible Light Facial Recognition

### MB560-VL

- Anti-spoofing algorithm against print attack (laser, color, and B/W photos), videos attack, and 3D mask attack
- Multiple Verification: Face / Fingerprint / Card / Password
- Optional Multiple card modules : ID / IC
- Communication: TCP/IP, Wi-Fi (optional), USB Host
- Face Capacity: 3,000
- FingerPrint Capacity: 3,000
- Card Capacity: 10,000 (Optional)
- Transactions: 100,000



## 3-in-1 Contactless Palm Recognition Terminal with Facial & Fingerprint Authentication Modes

### iFace Plus Series

- Hybrid-Biometric Verification mode: Palm / Face / Fingerprint
- High verification speed & advanced access control function
- High accuracy through updated palm & face algorithm which support wide pose angle acceptance and proactive palm & facial recognition
- 3,000 palm, 3,000 face, 4,000 fingerprint, 10,000 card (Optional)
- Optional ID/Mifare/HID card, Wi-Fi, 3G, External Bell/Printer, Backup battery, RS485 Reader
- Able to detect whether the face is an actual face or a photo, enhancing the security level of verification



## New-Generation Ultra-thin 4G Face Recognition Terminal



### Horus E1, Horus E1-FP, Horus E1-RFID

- 1.5Ghz Quad-core, 2G RAM / 16G ROM
- New generate deep learning face algorithm
- 5-inch HD touch LCD
- Communication: 4G, Wi-Fi, Bluetooth, USB OTG, TCP / IP, RS485
- Built in PIR, speaker, microphone, GPS and A-GPS
- Security relay box for advance access control
- User Capacity: 10,000
- Card Capacity (Optional): 10,000
- Face Capacity: 6,000; 10,000 (optional)
- Fingerprint Capacity (Optional): 10,000
- Log Capacity: 200,000

## Semi-Outdoor Multi-Biometric Time Attendance & Access Control Terminal

### iFace1000

- Outside installation (maximum 12,000 lux)
- 3,000 face, 4,000 fingerprint, and 10,000 card (optional) templates
- One face template is registered for one user only
- Able to detect whether the face is an actual face or photo
- Optional functions: ID/Mifare card, Wi-Fi, 3G, 2000mAh backup battery
- Multi-languages
- High verification speed
- Built-in backup battery providing approximately 4 hours of continuous operation



## Workforce Management Tablet With Android System

### Zpad Plus (Fingerprint Terminal)

- User & Card Capacity: 10,000
- Fingerprint Capacity: 20,000
- Transaction: 1000,000
- 7" multi-touch LCD screen
- Revolutionary SilkID fingerprint sensor
- ID / MF / OMINIKEY5127 optional
- Simple access for lock and exit button
- Equipped with backup battery



- Quad-core Cortex-A53 1.2GHz with Android 6.0.1 system
- 2 million pixels camera for photo and video
- Communication: Ethernet, WiFi, USB-host

### BioPro ST40-A

- 3,000 standard / 10,000 optional fingerprints
- 10,000 card templates
- Multiple communication modes: Wi-Fi, TCP/IP, 3G, USB Host
- Stable operation under strong light source
- Built-in battery, up to 4 hours
- Built-in POE
- Advanced access control function
- 1 channel auxiliary input for smoke detector connection



### BioPro MH20

- 3,000 face, 5,000 fingerprint, and 20,000 (optional) card templates
- 100,000 record capacity
- Stable operation under strong light source
- Infrared auto-turning on function to save power
- Quick recognition of dry, wet, and rough fingers
- Built-in 2000mAh backup battery to extend operation time

## Waterproof, Dustproof, and Shockproof Portable Fingerprint Time & Attendance Terminal

### S922

- Built-in 7600mAh backup battery extends extra operation time
- IP65 rated waterproof and dustproof protection grade
- Shockproof (1m above the ground) with unique rubber coating
- Communication: TCP/IP, USB-Host, Wi-Fi/3G (optional)
- 50,000 fingerprints and 50,000 card templates
- 800,000 transaction capacity
- Supports Mifare or HID card
- Designed for off-site time management
- Top handle with rubber coating enables users to carry easily.



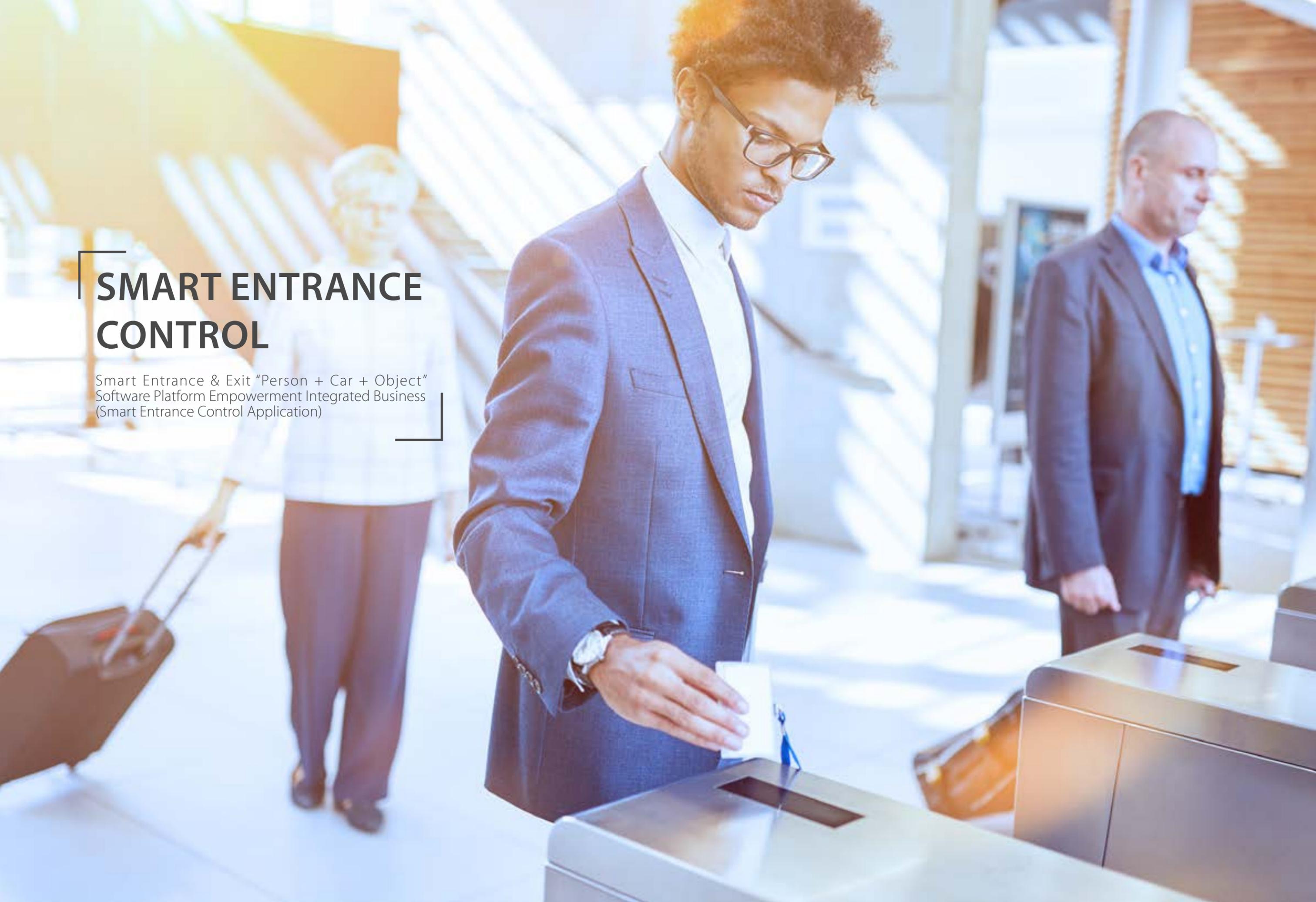
### BioPro MH30

- 3,000 face, 5,000 fingerprint, and 20,000 (optional) card templates
- 100,000 record capacity
- Touch keypad
- Multi-language supported
- Prevents duplicated face registration and supports fake face detection function
- Quick recognition of dry, wet, and rough fingers
- Built-in 2000mAh backup battery to extend operation time



# SMART ENTRANCE CONTROL

Smart Entrance & Exit "Person + Car + Object"  
Software Platform Empowerment Integrated Business  
(Smart Entrance Control Application)



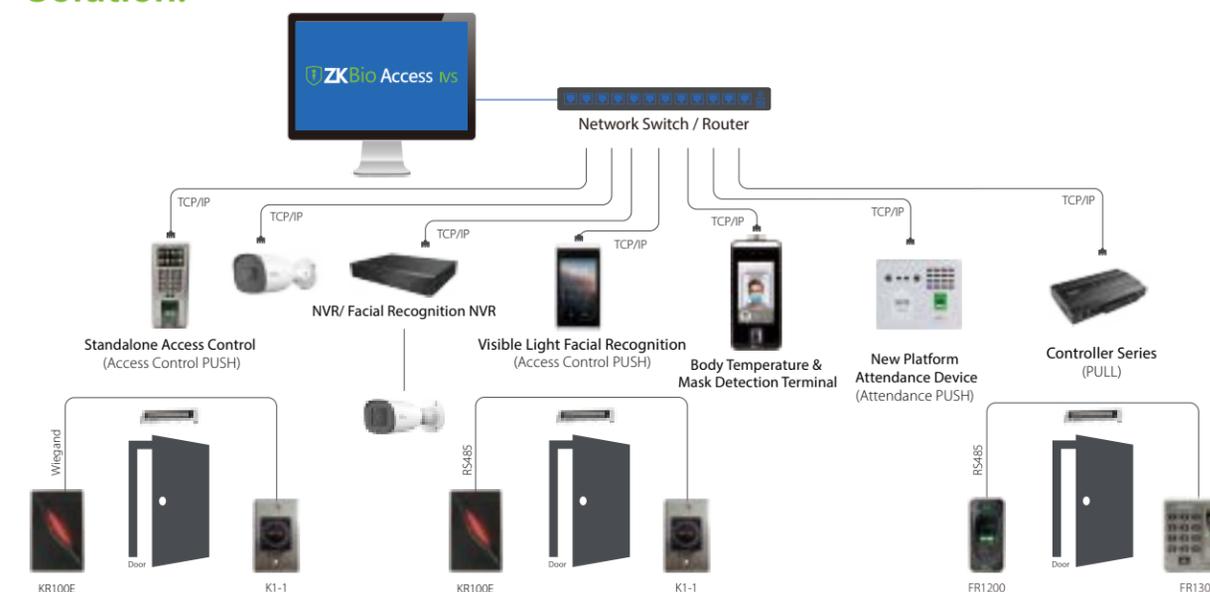
# Access Control

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.

## ZKBio Access IVS

ZKBio Access IVS is a lite web-based security platform developed by ZKTeco which provides abundant functionality that fulfills management requirements of small- to medium-sized businesses: Personnel Management, Access Control, Attendance Management, Video Surveillance, Temperature Detection and Management, System Management.

### Solution:



### Features:

#### Time & Attendance

- Flexible shift scheduling
- Set attendance by area or by different person
- Web-based attendance module suitable for multiple locations
- Supports multiple devices to be the attendance point
- Facial recognition records as Attendance data
- User-friendly for one-click operation
- Automatic attendance report emailed to administrator

#### VMS

- Reliable Video Management System with real-time view, playback, recoding, etc.
- Powered by Artificial Intelligence, providing different functions related to facial recognition such as: allowlist, blocklist control, face searching, people tracking, etc.
- Configure video device alarm linkage
- Intelligent Global-Linkage between Video and Access / Time & Attendance

#### Access Control

- Reliable access control logic
- Standard Anti-passback, Interlock, Linkage functions
- Supports most ZKTeco's access control terminals
- Automatic alarm notification
- Door status real-time monitoring
- User-friendly for one-click operation
- Supports expansion board for more applications

#### Mask & Temperature Detection

- Supports the latest Body Temperature & Mask Detection Terminals
- Provides responsive, intuitive, user-friendly web application for body temperature screening in secure areas
- Various analysis report formats



## Access Control Panels with Built-in Web Application

### Atlas Series

Atlas Series consists of RFID & Biometric door access control panels which have an embedded web application. The web application eliminates the need for access control management software.

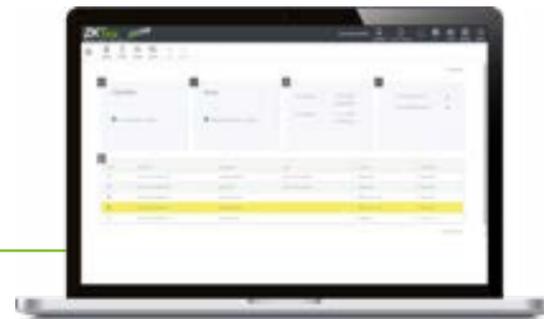


**ATLAS SERIES**

#### Features:

- Built-in web management application
- Advanced access control functions
- Supports ZKTeco fingerprint readers with Wiegand, RS485, or OSDP communication protocols
- 1 / 2 / 4 doors management

**No software required.**



### Atlas Prox

RFID Door Controller

- Atlas Prox 100: 1 door
- Atlas Prox 200: 2 doors
- Atlas Prox 400: 4 doors

### Atlas Bio

Biometric Door Controller

- Atlas Bio 100: 1 door
- Atlas Bio 200: 2 doors
- Atlas Bio 400: 4 doors

### Supported Readers



**FR1500A**  
Fingerprint Reader

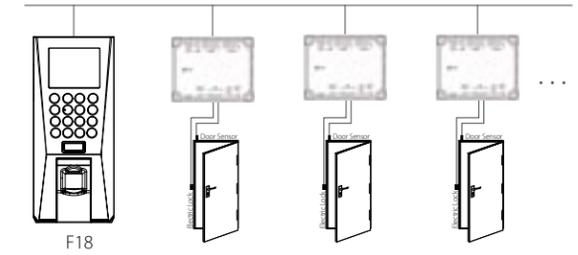


**KR601 Series**  
RFID Reader

## Single-door Extension Panel

### DM10

- RS485 Communication
- 2 Wiegand Readers
- 12V Power In & Out
- 1 Lock Sensor, 1 Exit Button
- 1 AUX IN, 1 AUX OUT



## IP-based Biometric Control Panel

### inBio Series

- 1/2/4 doors control panel
- 30,000 card capacity
- 3,000 (standard) fingerprint capacity; 20,000 (optional)
- 100,000 logs capacity
- Communication: TCP/IP and RS485
- CPU: 32bit 400MHz CPU
- Wiegand and RS485 readers supported



## Elevator Control Panel and Extension Board



### EC10

- Floor Button Control Relay: 10
- Fingerprint Capacity: 3,000
- Card Capacity: 30,000
- Event Capacity: 100,000
- Communication to PC: TCP/IP, RS485
- Number of Supported EX16: 3
- Communication to EX16: RS485



### EX16

- Floor Button Control Relay: 16
- RS485 Address: Set by DIP switch
- Communication to EC10: RS485
- Power Supply: 12V DC
- Net Weight: 0.2 kg
- Dimension: 160\*106mm

## Biometrics, QR Code, and RFID Entrance Control Terminal



**BR1200FB**  
(FP, QR Code, ID/IC)



**BR1200PB**  
(Palm, QR Code, ID/IC)

### BR1200

- Display: 2.8 inches touch screen
- User Capacity: 10,000 (Optional: 50,000)
- Fingerprint Capacity (BR1200FB): 10,000 (Optional: 50,000)
- Palm Capacity (BR1200PB): 1,000
- Logs Capacity: 150,000
- Communication: RS232, TCP/IP
- Standard Functions: Self-service query, DST, T9 input, 9 digital user ID, ADMS, DNS
- Scan Code Format: PDF417, QR Code Model 1/2, Micro QR, Data Matrix, GS1-DataBar (Limited, Stacked, Expanded)

## SilkID Fingerprint Access Control and Time Attendance Terminal

### BioPro SA40

- Fingerprint Capacity: 3,000
- Card Capacity: 5,000 (optional)
- Logs Capacity: 30,000
- Communication: TCP/IP, USB Host, RS232/485, Wi-Fi
- Optional: ID/MF card, printer
- DST, Automatic Status Switch, Record Query, T9 input, 14-digit user ID, Anti-passback, Scheduled bell, ADMS, Weigand In/Out



## Multi-biometric Access Control and Time Attendance Terminal



### BioPro MV30

- Face Capacity: 3,000 (1:N)
- Fingerprint Capacity: 4,000
- Card Capacity: 10,000 (optional)
- Transaction Capacity: 100,000
- Communication: TCP/IP, RS485, USB-Host
- DST, Automatic Status Switch, Anti-passback, Scheduled-bell, ADMS
- ID/MF Card, RS485 (for slave reader)

## Fingerprint Access Control and Time Attendance Terminal with Touch Screen Display



### SF400

- IP based fingerprint terminal
- 2.8 inch capacitive touch screen
- Communication: TCP/IP, USB Host
- Fingerprint Capacity: 1500
- Card Capacity: 5,000
- RF Card: EM (Standard) / Mifare (Optional)
- Printer (Optional)
- ADMS (Optional)
- Webserver (Optional)

## Waterproof Standalone A&C Device Supporting Card & Password Authentication



### MKW Series

- Metal case
- Touch keypad
- IP65 - waterproof and dustproof
- A&C Standalone
- User Capacity: 5,000
- Password Capacity: 5,000
- Password: 4 to 6 digits
- Verification Modes: Card Only / Password Only / Card + Password
- 1 Relay / 1 Door Sensor / 1 Exit Button / 1 Doorbell / 1 Tamper Alarm
- Wiegand Reader: W26/W34

## SilkID Fingerprint Access Control and Time Attendance Terminal



### BioPro SA30

- Fingerprint Capacity: 3,000
- Card Capacity: 5,000 (optional)
- Logs Capacity: 100,000
- Communication: TCP/IP, USB Host, RS232/485
- DST, Automatic Status Switch, Anti-passback, Scheduled-bell, ADMS
- Optional: ID/MF card, RS485 (for slave reader), printer
- Wiegand In/Out

## Wiegand & RS485 QR Code Reader



### QR500

- QR Code / Data Matrix / PDF417 / GS1 Databar / Code 128 / EAN128 / UPC/EAN Codabar / Code 39 /93 etc
- Mifare Ultralight / S50 / S70 / DESFire / EV1 NTag
- Reading Distance: QR ≥ 5CM, RFID Card ≥ 4CM
- W26 / W34 / W66, RS485, USB

## Waterproof and Vandalproof Dual Frequency RFID Reader

### MR1010 / MR1020

- IK10 (vandal-proof) and IP66 (waterproof and dust-proof)
- Metal casing
- Operating frequency: 125kHz & 13.56MHz
- Operating temperature: - 40°C ~ 60°C
- Wiegand outputs 26 / 34bits
- Reading distance: 2 ~ 6cm



## Accessories

### Exit Button



### Cards & Tags



## 433 MHz Wireless & Wiegand Reader



### WRF100

- 433 MHz communication
- Wiegand interface to terminal
- Ultra low power consumption
- Operating temperature: - 20°C ~ 60°C
- Wiegand outputs 26 / 34bits
- \*Should have a data receiving module

### Protection Box



# Smart Security Gate

Entrance control is the management of people. General management methods include an 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 often the flap barrier turnstiles are often installed in private enterprises. ZKTeco commits to integrating biometrics into entrance control to provide more intelligent management solutions.



## NOTES:

TS/FBL/SBTL/FHT--00: Turnstile only

TS/FBL/SBTL/FHT--11: Turnstile with RFID reader and controller

TS/FBL/SBTL/FHT--22: Turnstile with RFID & fingerprint reader and controller

TS/FBL/SBTL/FHT--33: Turnstile with facial recognition device

## Tripod Turnstile



### TS1000 Pro

- Tripod arms unlock & drop during emergencies or power loss
- All smooth finishing
- Visual indicator for granted access (or denied)
- Ergonomic design makes card and fingerprint authentication fast and simple for users
- Indoor and outdoor (if sheltered) environments
- SUS304 stainless steel
- Working Temperature: -28°C ~ 60°C
- Working Humidity: 5% ~ 80%



### TS2000 Pro

- Tripod arms unlock & drop during emergencies or power loss
- SUS304 stainless steel housing
- LED pictograms for intuitive user experience and high throughput in both directions
- High quality at an affordable price
- Low power consumption
- Easy and simple installation process
- Indoor and outdoor (if sheltered) environments
- Working Temperature: -28°C ~ 60°C
- Working Humidity: 5% ~ 80%



## Flap Barrier



### FBL4000 Pro Series

- SUS304 stainless steel casework ensures long-lasting durability
- Barriers retract automatically during power outage
- All smooth finishing. No exposed screws.
- Indoor and outdoor (if sheltered) environments
- LCD on the flap barrier control board for easy operation
- Working temperature: -28°C ~ 60°C
- Working humidity: 5% ~ 80%
- Ergonomic design makes card and fingerprint authentication fast and simple
- Footprint (mm): 1350\*1200



### FBL5000 Pro Series

- SUS304 stainless steel casework
- Tempered glass lid material
- Barriers retract automatically during power outage
- All smooth finishing. No exposed screws.
- Indoor and outdoor (if sheltered) environments
- LCD on the flap barrier control board for easy operation
- Working temperature: -28°C ~ 60°C
- Working humidity: 5% ~ 80%
- Ergonomic design makes card and fingerprint authentication fast and simple
- Footprint (mm): 1200\*1200



### FBL6000 Pro Series

- SUS304 stainless steel casework
- Barriers retract automatically during power outage
- All smooth finishing. No exposed screws.
- Indoor and outdoor (if sheltered) environments
- LCD on the flap barrier control board for easy operation
- Working temperature: -28°C ~ 60°C
- Working humidity: 5% ~ 80%
- Ergonomic design makes card and fingerprint authentication fast and simple
- Footprint (mm): 1400\*1200

## Swing Barrier



### SBT2000s

- Single lane swing barrier
- Barriers swing automatically during emergencies
- Optional color: White or stainless
- Tempered glass barrier material
- Indoor / outdoor (if sheltered) environments
- Built-in reader integration
- Simplified structure and connection, easy to maintain
- Touch screen shows the current running status
- Lane width (mm): 800
- Working humidity: 20% ~ 93% (Non-condensing)
- Working temperature: -15°C ~ 60°C



### SBTL5000 Series

- SUS304 stainless steel cabinet
- Tempered glass material for lid and barrier
- All smooth finishing. No exposed screws.
- Control board with LCD screen, easy to operate
- Working temperature: -28°C ~ 60°C
- Working humidity: 20% ~ 95% (Non-condensing)
- Ergonomic design makes card and fingerprint authentication fast and simple
- Indoor environment
- Simple structure and connection, easy to maintain
- Footprint (mm): 1400\*1010



### SBTL6000 Series

- Modular reader panel for easy upgrade or switch of reader: RFID / Fingerprint / QR code / face / palm reader
- Servomotor - faster opening speed
- 6 pairs of infrared sensors
- SUS304 stainless steel casing
- LED passage indicator in both directions
- Bi-directional operation control
- Working temperature: -28°C ~ 60°C
- Working humidity: 20% ~ 95% (Non-condensing)
- Indoor and outdoor (if sheltered) environments

## Full Height Turnstile



### SBTL7000 Series

- Compact design
- Easy to integrate with other verification method: QR code, card, facial recognition, etc.
- DC brush-less motor with high durability
- Anti-tailgate alarm and anti-pinch
- Painted steel casework ensure long-lasting durability
- Indoor / outdoor (if sheltered) environments
- Barriers unlock automatically during power outage



### SBTL8000 Series

- Modular reader panel for easy upgrade or switch of reader: RFID / Fingerprint / QR code / face reader
- Servomotor - faster opening speed
- 10 pairs of infrared sensors for stronger tailgate detection
- SUS304 stainless steel casing
- LED passage indicator in both directions
- Bi-directional operation control
- Working temperature: -28°C ~ 60°C
- Working humidity: 20% ~ 95% (Non-condensing)
- Footprint (mm): 1400\*1010



### SBTL9000 Series

- Compact design
- Easy to integrate with other verification method: QR code, card, facial recognition, etc.
- DC brush-less motor with high durability
- Anti-tailgate alarm and anti-pinch
- Painted steel casework ensure long-lasting durability
- Indoor / outdoor (if sheltered) environments
- Barriers unlock automatically during power outage



### FHT2300 Series

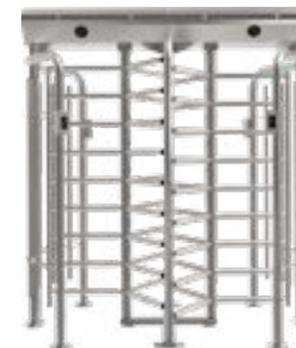
- 3-lane passage; 120°
- SUS304 stainless steel material for cabinet case and barrier
- Visible indicator
- Customizable with your choice of reader: card, fingerprint, face, etc.
- Indoor and outdoor environments
- IP54 ingress protection
- High-level security
- Footprint: 1400\*1395



### FHT2400 Series

- 4-lane passage; 90°
- SUS304 stainless steel material for cabinet case and barrier
- Visible indicator
- Customizable with your choice of reader: card, fingerprint, face, etc.
- Indoor and outdoor environments
- IP54 ingress protection
- High-level security
- Footprint: 1400\*1320

## Double Full Height Turnstile



FHT2300D



FHT2400D



## Parking Barrier

### VR10

The radar sensor for vehicle detection VR10 is developed to detect and identify various vehicles (motorcycles, cars, trucks), pedestrians, and small (distant) objects within a detection area from 1m to 6m around the boom barrier. Through linkage with the main board of the barrier, VR10 can help prevent vehicles from smashing the obstacles or damaging any properties or passers-by while allowing automatic boom closing.



- Support vehicle and people detection
- Flexible installation; easy debugging
- Detection distance can be adjusted from 1m - 6m

Model	VR10	Antenna Gain	10dBi
Detection Distance	1 - 6m	Interface	RS485, Relay
Working Frequency	79GHz	Product Size (mm)	107.5*73.2*18
Working Voltage (V)	DC10 - 16V	Packing Deminsions (mm)	166*94*97
Working Current	0.2A	Net Weight	228.4g
Power Consumption (W)	≤2.5	Working Temperature	-40°C ~ +85°C
Transmitter Power Output	12.5dBm	Protection Standard	IP67



### ProBG3000

The ProBG3000 series is a high performance and high-speed barrier gate. It adopts a high-performance servo motor, simple and reliable transmission structure, high-temperature resistant control panel, humanized interactive appearance design and anti-collision protected boom connector design.

Model No.	ProBG3000	ProBG3100
Motor Type	Servomotor	
Boom Type	Straight boom	90° Folding boom
Boom Length	Support 3m/4.5m/6m (Can be adjusted)	3m
Protection Level	IP54	
Operating Temperature	-40°C ~ +75°C	
Power Supply	24V DC, AC 100 ~ 240V	
Controller Frequency	50 - 60Hz	
Case Dimensions	360*330*1000mm	
Net Weight	48kg	



## LPR Product Series

### LPRC200

Intelligent License Plate Recognition Camera



- Recognition of license plate number (by default), brand, color, and type of vehicle
- IP65 protection level
- With embedded vehicle access software
- Vehicle list import and export via web server
- Free SDK and push protocol supporting 3rd party integration
- 4G connection (optional)
- ≤100ms recognition speed



### LPRS1000

- Permanent algorithm update service
- Localized display and voice



### LPRS4000

- Permanent algorithm update service
- Unibody structure
- High-end design and elegant appearance

#### License Plate Recognition Specifications

Recognition Accuracy	Day≥ 99.9%; Night≥ 99.7%
Recognition Time	≤200ms (average time)
Recognition Distance	2 - 10meters (recommend distance is 3.5 - 4m)
Adaptable Speed of Car	≤15km/h
Output Information	License plate number, License plate picture, Access time
Supported Countries	Thailand, Argentina, Mexico, Chile, Colombia, Turkey, Saudi Arabia, South Africa, Brazil, Peru, Mongolia, Malaysia, Indonesia, Vietnam, UAE, Oman, Egypt, EU, Korea, Pakistan, etc.

## UHF Product Series



### UHF 5E Pro / UHF 5F Pro

- Reading distance up to 8m
- Led light at the bottom indicate read status
- Outdoor use (IP66)
- Interface, Wiegand, RS485, USB



### UHF 10E Pro / UHF 10F Pro

- Reading distance up to 20m
- Led light at the bottom indicate read status
- Outdoor use (IP66)
- Interface, Wiegand, RS485, USB



### UHF1-5E/F

### UHF1-10E/F

- Reading distance
  - UHF1-5E/F: up to 6m
  - UHF1-10E/F: up to 12m
- Outdoor use (IP65)
- Non-contact access control management
- Supports 865 MHz - 868 MHz and 902 MHz - 928 MHz

### UHF6E Pro / UHF6F Pro

- Reading distance up to 18m
- Long distance vehicle access management
- Non-contact access control management
- Outdoor use (IP65)
- Supports 865MHz-868MHz and 902MHz-928MHz



### U1000E/F



### U2000E/F

- Reading distance
  - U1000E/F: up to 6m
  - U2000E/F: up to 18m
- Outdoor use (IP65)
- Non-contact access control management
- Supports 865 MHz - 868 MHz and 902 MHz - 928 MHz

# Plock Series



Plock 1

- Material: SPCC steel
- Control Distance:  $\leq 20$  m
- Arm rising time/falling time:  $\leq 6$  s
- Altitude after rising: 390 mm
- Altitude after dropping: 75 mm
- Operating Temperature:  $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- Power Supply: Alkaline dry battery (D\*4)
- Rated Voltage: DC 6V
- Quiscent Current:  $\leq 0.1\text{mA}$
- Operating Current:  $\leq 0.9\text{A}$
- Size: 390\*460\*75 mm
- Weight: 8 kg



Plock 2

- Material: Steel
- Control Distance:  $\leq 20$  m
- Arm rising time/falling time:  $\leq 6$  s
- Altitude after rising: 420 mm
- Altitude after dropping: 75 mm
- Operating Temperature:  $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- Power Supply: Alkaline dry battery (D\*4)
- Rated Voltage: DC 6V
- Quiscent Current:  $\leq 1.5\text{mA}$
- Operating Current:  $\leq 2.5\text{A}$
- Size: 460\*460\*75 mm
- Weight: 8 kg

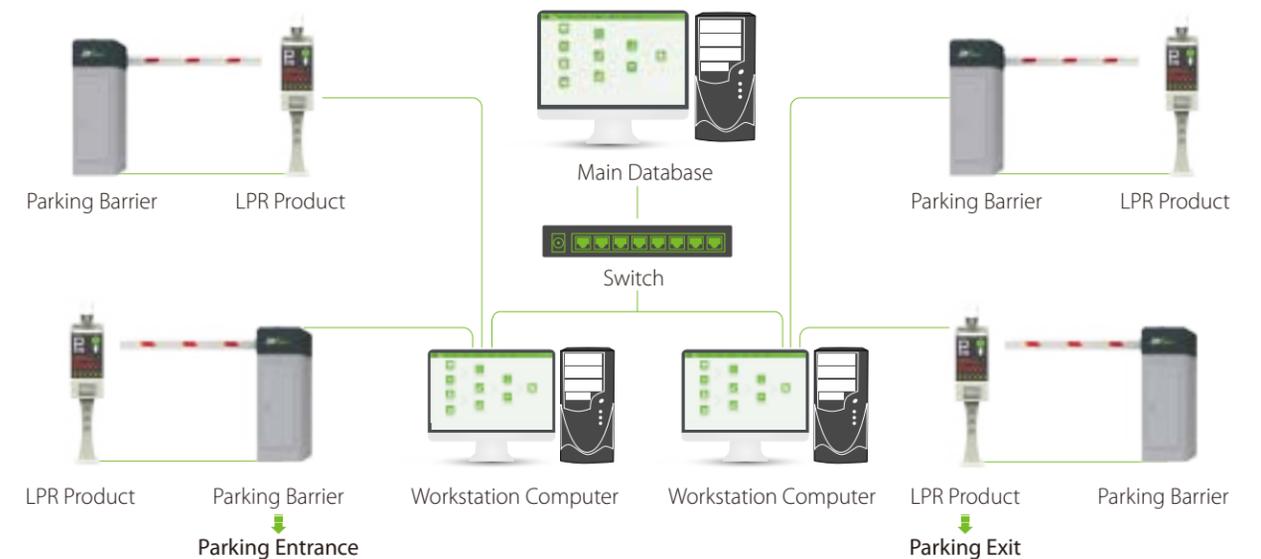
## Parking Space Management



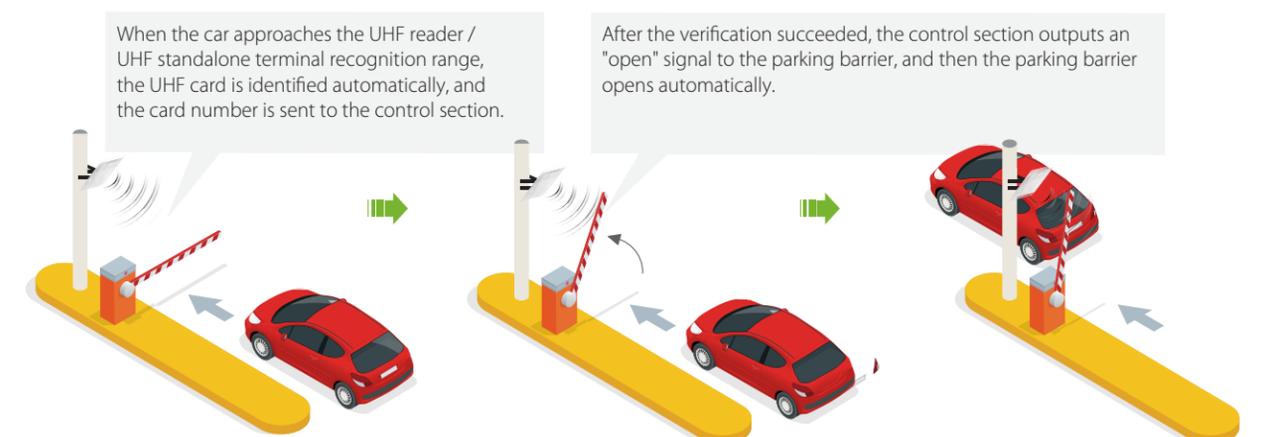
## Internal and Visitor Vehicles Management (With LPR Camera)



## ZKTeco Parking



## Long Distance Internal Vehicle Access Management (with UHF Reader and UHF Tag)



## Bollard



**BOL1168-F**  
Fixed Bollard

- Diameter: 168 mm
- Height from Ground: 600 mm / customization
- Average Thickness: 6 mm / customization
- Embedding Depth: 200 mm
- Material: SUS304
- Reflective Strip Color: Yellow



**BOL1168-R**  
Removable Bollard

- Diameter: 168mm
- Height from Ground: 600mm / customization
- Average Thickness: 6mm / customization
- Embedding Depth: 210 mm
- Material: SUS304
- Reflective Strip Color: Yellow

**BOL1219-A**  
Automatic Bollard



- Drive Unit: Hydraulic
- Diameter: 219 mm
- Weight: ≥130 kg
- Raising height: 600mm/ 800mm
- Underground Product Dimensions: 430\*430\*1130 mm / 430\*430\*1330 mm
- Raising/lowering Time: 3s
- Weight Load: 120t
- Material: SUS304
- Material Thickness: 6/ 8/ 10/ 12/ 15/ 30 mm
- Ingress Protection: IP68
- Working Voltage: AC110/220V
- Working Power: 350W
- Working Temperature: -35°C ~ 75°C

## Under Vehicle Scanner



**ZK-VSCN100**

- Scanning Camera: High-speed line-scanning camera
- Vertical Resolution of the Image: >6000\*2048 pixels
- Speed of Vehicle: 1 - 60km/h (Recommended speed: ≤30 km/h)
- Effective Field of View (FOV): Less than 170°
- Waterproof Grade: IP68



**ZK-VSCN200**

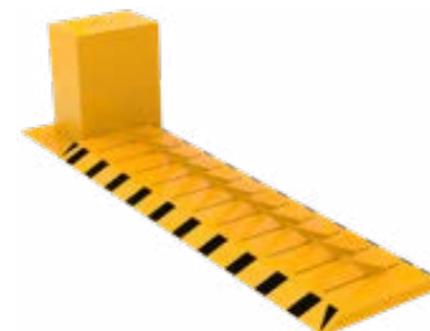
- Surveillance Camera: 2MP HD camera
- Auxiliary Light:  
ZK-VSCN100: 160W  
ZK-VSCN200: 320W
- Weight Capacity:  
ZK-VSCN100: 30T  
ZK-VSCN200: 50T



**ZK-M3**

- Mirror Diameter: 300 mm
- Rod Length: 1,200 - 1,400 mm
- Light Source: LED
- Available with flashlight mounting bracket
- Mirror with wheels
- 13 mm spanner

## Tire Killer



**ZK-TK500**

- Blocking width from 2m to 6m
- Blocking height of spike from above surface level: 550mm
- Loop detector is provided for safety
- A3 steel material
- IP67 protection rate
- Maximum loading weight: 80T
- Electromechanical operated

# Security Inspection

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 Security Inspection System



### ZKX6040

- Innovative fingerprint identification
- Steel penetration up to 35mm
- True-color scanning image
- Tunnel opening of 600mm\*400mm
- Up to 180kg load on conveyor
- Optional video surveillance

### BLADE6040

- Automatic identification of suspicious objects
- Steel penetration of up to 40mm
- Startup with fingerprint identification
- Threat image protection
- Tunnel dimensions of 610\*420mm
- Four layers of lead curtain
- Scan image and WTMD's status display in one screen



### BLADE100100

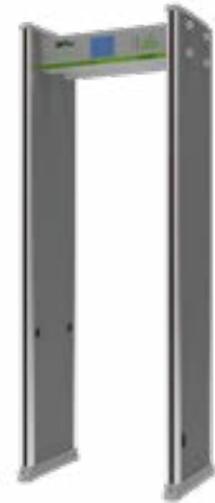
- Automatic identification of suspicious objects
- Steel penetration of up to 35mm
- Startup with fingerprint identification
- Threat image protection
- Tunnel dimensions of 1010\*1010mm
- Operator desk with two monitors
- Scan image and WTMD's status display in one screen

# Metal Detector



## ZK-D4330

- 33 detection zones
- Real-time display and alarm strength indicator
- Various alarm tones to setup
- With 7-inches LCD screen
- Each zone sensitivity level of up to 300
- Fault automatic diagnosis help user quickly



## ZK-D3180s

- 18 detection zones
- Count statistics of alarms and people
- 256 adjustable sensitivity levels
- Optional body temperature detection
- With 5.7-inches LCD display
- Synchronous sound & LED alarm



## MST150

- 15 detection zones
- Adjustable sensitivity level
- Integrated design of metal detector and turnstile
- No overhead module design
- Built-in LED display, easy to configure
- Frequency Channel: 12
- Alarm Relay: 1 - 3 s
- Open Duration: 0.8 s (adjustable)
- Movement: Swing
- Infrared Sensor: 8 pairs
- Lid Material: Tempered Glass

## MDS100

- High scanning rate, 50 people can be screened per minute
- Excellent anti-interference ability
- 100% safe for heart pacemaker, pregnant women, etc.
- Up to 100 adjustable sensitivity levels
- IP65, fully weather proof for outdoor use
- 28 hours continuous use on embedded battery operation



## ZK-D100S

- Optional Functions: Li battery, USB charge cable (optional)
- Alarm Terms: Sound (vibration) and light alarm simultaneously
- Waterproof: IP31
- Alarm Sound:  $\geq 75$  dB(A)



## ZK-D180

- Alarm Terms: Sound (vibration) and light
- Alarm Sound:  $\geq 75$  dB(A)
- Frequency: 22 kHz



## ZK-D300

- Power Consumption:  $< 60$  mW
- Alarm Terms: Sound and light alarm / Vibration and light alarm
- Material: ABS and rubber
- Available colors: Black, white, or gray



# Smart Lock

Smart lock is an electronic mechanical lock that allows you to open and lock your doors with a virtual key of fingerprint, face, passcode, RFID card, putting an end to the problem of lost keys and enabling an array of intelligent and useful features. In 2006, ZKTeco started to step into the smart lock industry, with its cutting edge biometric technology to provide security and convenience for home and office.



## Residential Door Lock



### ML200 / ML300 Series

- No drilling required
- Supports phone / fingerprint / passcode / key
- Capacitive fingerprint sensor (only for ML300)
- Supports remote control for ZSmart App (Bluetooth gateway required)
- Work with Amazon Alexa and Google Assistant
- American standard single latch, German standard mortise (optional)

### TL300 Series

- Supports audio instructions of three languages
- Capacitive fingerprint sensor
- IC card & NFC supported
- Supports bluetooth for ZK SmartKey or Zigbee for ZSmart
- China standard anti-theft mortise



### DL30 Series

- Supports audio instructions of three languages
- Mifare card & NFC supported
- Supports Bluetooth for ZK SmartKey or Zigbee for ZSmart
- American standard single latch, German standard mortise (optional)

### HBL100 / HBL200 Series

- Compact design
- Supports phone / face / fingerprint / passcode / card / key
- 2.8 Inches capacitive screen with graphical user interface
- Supports Bluetooth for ZK SmartKey or Zigbee for Alexa
- Rechargeable lithium battery
- American standard single latch, German standard mortise (optional)





### ZM100

- Accurate and high-speed face verification in 1:N mode
- Equipped with SilkID fingerprint sensor
- 2.8 inches capacitive screen with graphical user interface
- Rechargeable lithium battery
- China standard anti-theft mortise

### TL400B

- European Standard Mortise with Automatically Locking
- Polished chrome casing
- Supports audio instructions for easy operation
- Supports Bluetooth for ZK SmartKey
- Fit for all door opening directions



### AL30 / AL40 Series

- American deadbolt
- Capacitive fingerprint sensor (only for AL40)
- Auto relock timer & volume adjustment
- Supports Bluetooth for ZK SmartKey or Zigbee for Alexa
- Lockout mode to enhance security level

### AL10 / AL20 Series

- Supports audio instructions of three languages
- Lockout mode to enhance security level
- Supports Bluetooth for ZK SmartKey
- American standard single latch, German standard mortise (optional)



## Hotel Door Lock

### ZL400

- Zigbee communication with simple gateway
- Supports remote always-open mode
- Real-time data uploading
- Customizable password & card sector for issued cards
- Online checking lock status
- With warning beeps in low battery voltage



### LH Series



LH1000



LH3000



LH3600



LH4000



LH5000



LH6000



LH6500



LH6800



LH7500

## Glass Door Lock



### GL300

- No drilling holes required
- Supports fingerprint / passcode / mifare card / remote control
- OLED display design
- Doorbell function
- Fit for all door opening directions

## Fingerprint Padlock

### Padlock

- Widely used for locker, cabinet and bag
- Fingerprint Unlock
- USB Rechargeable
- Low battery warning
- Color Options: Silver / Black



## Mobile Application

### ZK SmartKey: Mobile Application for the Bluetooth-Enabled Residential Lock

ZK Smartkey App is a door lock management software for mobile devices which is compatible with iOS and Android phones. It is mainly used for door opening with mobile phones, mobile user management, and user information review etc.

### Features

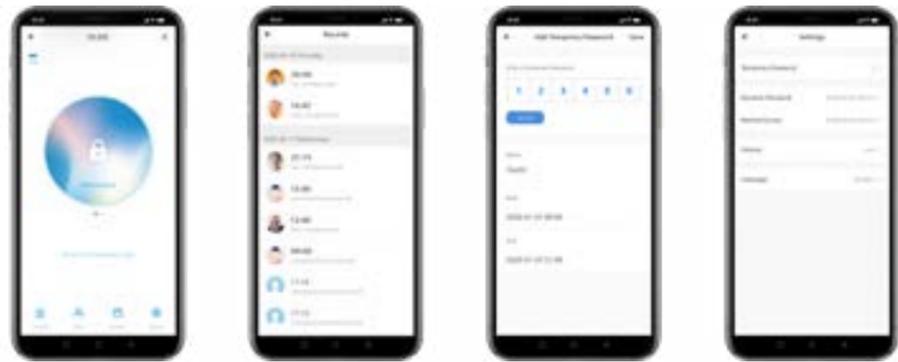
- User Registration: Register fingerprint, passcode, and card using your mobile phone
- Visitor Mode: Sharing temporary passcode from anywhere, anytime
- Records Check: Keep track of who & when a person has come
- Time Zone: Grant limited access rights to your babysitter or housekeeper

### Supported Models

HBL100B / HBL200B / TL300B / AL40B / AL30B / DL30B / AL20B / AL10B / TL400B



## ZSmart: Mobile Application for the Smart Home System



Remote Access

Check Records

Share Temporary Password

Modify Lock's Features

### Features

- Total Control: Unlock and manage the lock from anywhere via a smart phone
- Temporary Access: Share digital keys valid for specific time to friends or guests
- Smart Alerts: Receive real-time notifications of low battery, hijack and offline

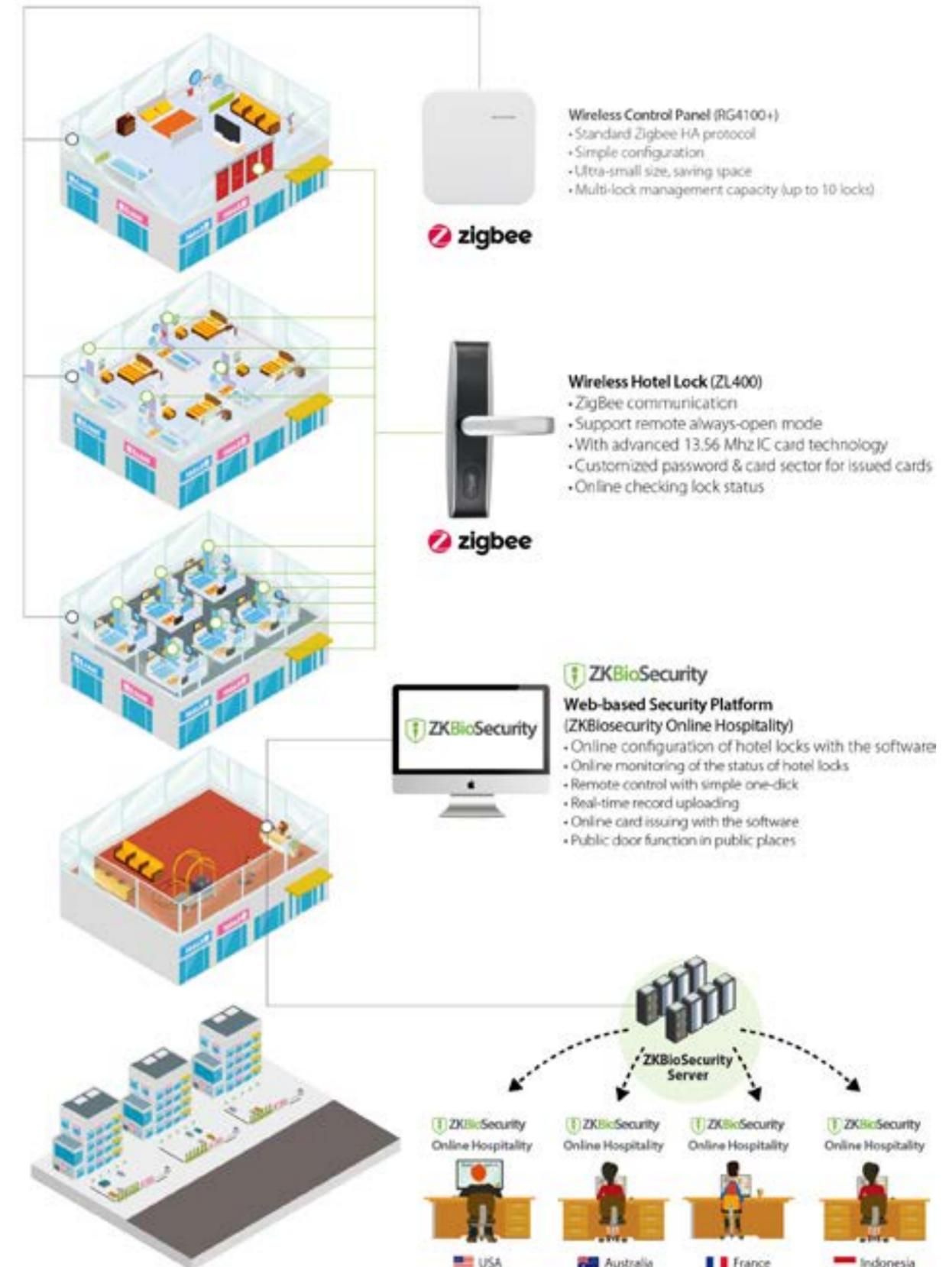
### Supported Models

ML300 / ML200 / TL300Z / DL30Z

## Short-term Rental Lock Solution



## Wireless Hotel Lock Solution

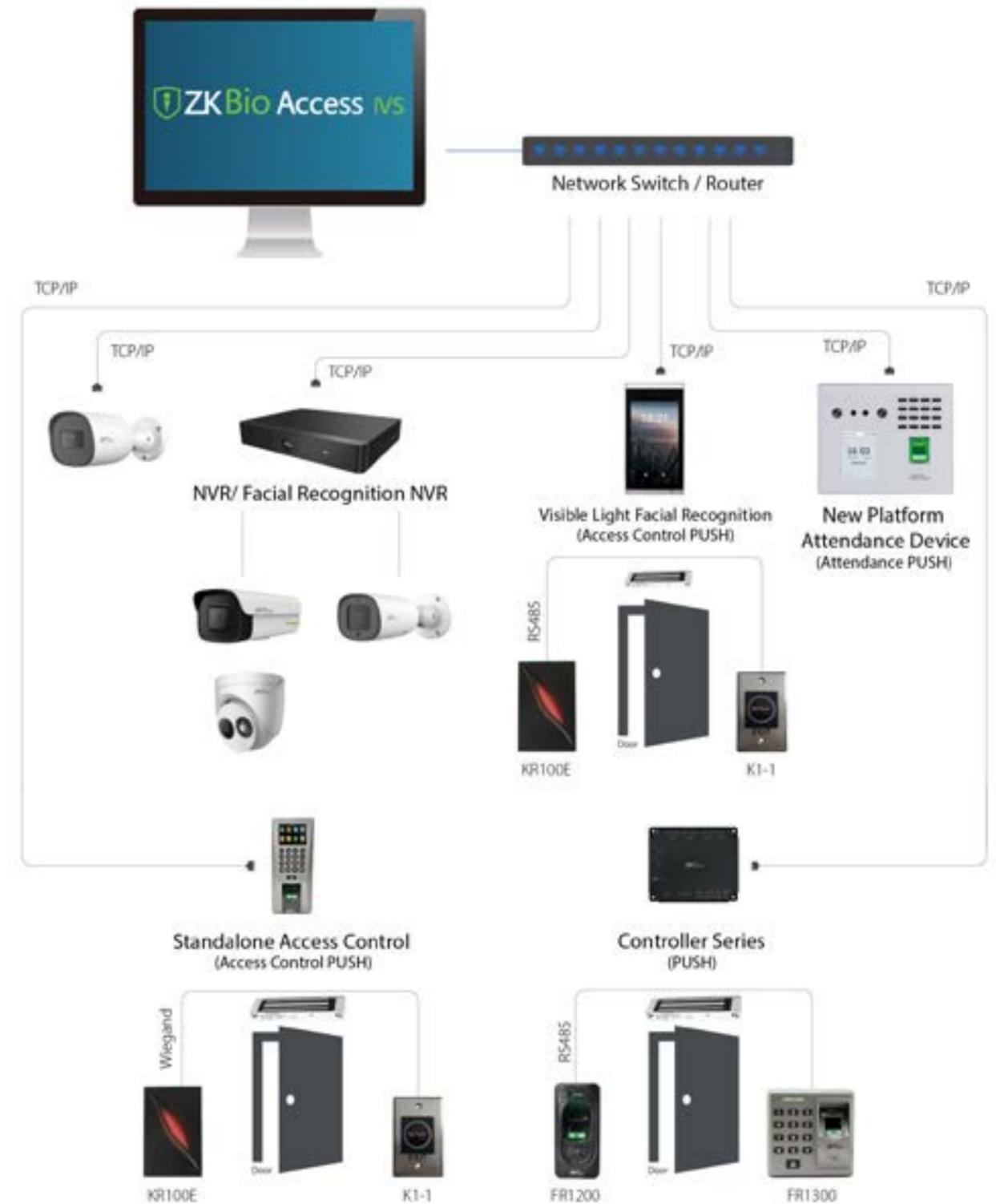


# Video Surveillance

ZKTeco Surveillance Department was established in 2010 which focuses on providing economic, competitive, and featured security system in order to universally popularize cameras / DVR / NVR / CMS / cloud functions. The full coverage of HD analog and smart IP solution could be catered for a variety of entry level and high end tailored projects. In 2016, ZKTeco officially launched the cutting edge long distance and wide dynamic facial recognition cameras along with the technology, completed with a well developed software backend and a mobile App, which greatly raises the security market to the next level.



## System Topology



# Solution Topology



# BioFace Lite Solution

## BioPro Series

### BS-852T23C

- 1/2.8" Sony STARVIS CMOS
- 2MP (1920\*1080)@25fps
- H.264/H.265
- IR Range 30m
- Fixed Lens 6mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire/Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence



### BS-852T22C-MI

- 1/2.8" Sony STARVIS CMOS
- 2MP (1920\*1080)@25fps
- H.264/H.265
- IR Range 30m
- Fixed Lens 3.6mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire/Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BS-852T23C-MI

- 1/2.8" Sony STARVIS CMOS
- 2MP (1920\*1080)@25fps
- H.264/H.265
- IR Range 30m
- Fixed Lens 6mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire/Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### ES-852T22C

- 1/2.8" Sony STARVIS CMOS
- 2MP (1920\*1080)@25fps
- H.264/H.265
- IR Range 30m
- Fixed Lens 3.6mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire/Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### ES-852T21C

- 1/2.8" Sony STARVIS CMOS
- 2MP (1920\*1080)@25fps
- H.264/H.265
- IR Range 30m
- Fixed Lens 3.6mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence



### ES-852T22C-MI

- 1/2.8" Sony STARVIS CMOS
- 2MP (1920\*1080)@25fps
- H.264/H.265
- IR Range 30m
- Fixed Lens 3.6mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### ES-852T21C-MI

- 1/2.8" Sony STARVIS CMOS
- 2MP (1920\*1080)@25fps
- H.264/H.265
- IR Range 30m
- Fixed Lens 2.8mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BL-852T33S

- 1/2.8" Sony STARVIS CMOS
- 2MP (1920\*1080)@25fps
- H.264/H.265
- IR Range 50m
- Fixed Lens 6mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### DL-852T28B

- 1/2.8" Sony STARVIS CMOS
- 2MP (1920\*1080)@25fps
- H.264/H.265
- IR Range 30m
- 3X zoom motorized lens
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BS-854N22C

- 1/3" CMOS
- 4MP (2592\*1520)@25fps
- H.264/H.265/H.265+
- IR Range 30m
- Fixed Lens 3.6mm
- DWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BL-852T45S

- 1/2.8" Sony STARVIS CMOS
- 2MP (1920\*1080)@25fps
- H.264/H.265
- IR Range 80m
- Fixed Lens 12mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection/Tripwire/Intrusion/Target counting/Object Detection/Video loss/Video Tampering/Sound Detection/Fire Detection/Scence Change/VQD



### BL-852T48S

- 1/2.8" Sony STARVIS CMOS
- 2MP (1920\*1080)@25fps
- H.264/H.265
- IR Range 80m
- 3X zoom motorized lens
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire/Intrusion /Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BS-854N23C

- 1/3" CMOS
- 4MP (2592\*1520)@25fps
- H.264/H.265/H.265+
- IR Range 30m
- Fixed Lens 6mm
- DWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### ES-854N22C

- 1/3" CMOS
- 4MP (2592\*1520)@25fps
- H.264/H.265/H.265+
- IR Range 30m
- Fixed Lens 3.6mm
- DWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BL-852T50S

- 1/2.8" Sony STARVIS CMOS
- 2MP (1920\*1080)@25fps
- H.264/H.265
- IR Range 100m
- 10X zoom motorized lens
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire/Intrusion /Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### EL-852T38I

- 1/2.8" Sony STARVIS CMOS
- 2MP (1920\*1080)@25fps
- H.264/H.265
- IR Range 50m
- 3X zoom motorized lens
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



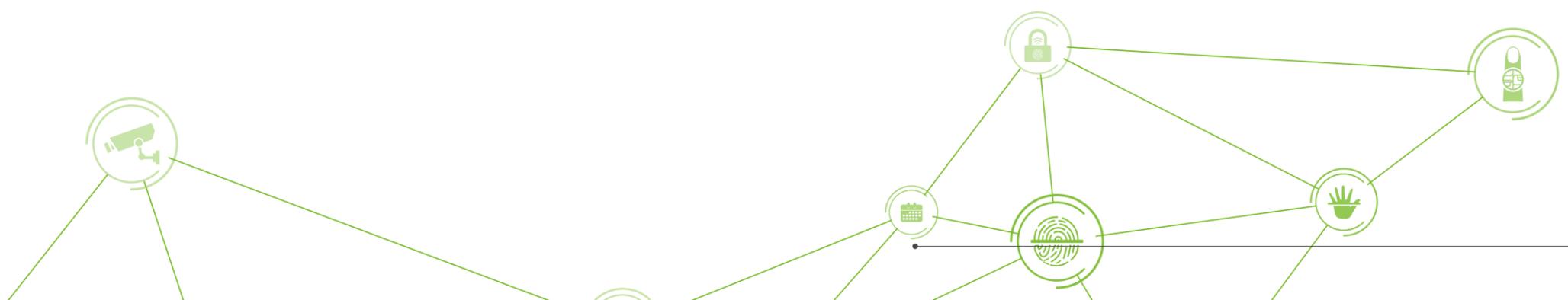
### ES-854N21C

- 1/3" CMOS
- 4MP (2592\*1520)@25fps
- H.264/H.265/H.265+
- IR Range 30m
- Fixed Lens 2.8mm
- DWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BL-854N38S

- 1/3" CMOS
- 4MP (2592\*1520)@25fps
- H.264/H.265/H.265+
- IR Range 50m
- Motorized 2.8-12mm
- DWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### EL-854N38I

- 1/3"CMOS
- 4MP (2592\*1520)@25fps
- H.264/H.265/H.265+
- IR Range 50m
- Motorized 2.8-12mm
- DWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### DL-854N28B

- 1/3"CMOS
- 4MP (2592\*1520)@25fps
- H.264/H.265/H.265+
- IR Range 30m
- motorized 2.8-12mm
- DWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BL-854N38A-E3

- 1/2.8"CMOS
- 4MP (2592\*1520)@25fps
- H.264/H.265/H.265+
- IR Range 50m
- Motorized 2.8-12mm
- DWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### EL-854N38I-E3

- 1/2.8"CMOS
- 4MP (2592\*1520)@25fps
- H.264/H.265/H.265+
- IR Range 50m
- Motorized 2.8-12mm
- DWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BS-854N22C-E3

- 1/2.8"CMOS
- 4MP (2592\*1520)@25fps
- H.264/H.265/H.265+
- IR Range 30m
- Fixed Lens 3.6mm
- Low light
- DWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BS-854N23C -E3

- 1/2.8"CMOS
- 4MP (2592\*1520)@25fps
- H.264/H.265/H.265+
- IR Range 30m
- Fixed Lens 6mm
- DWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BS-855P23C

- 1/2.8" Sony STARVIS CMOS
- 5MP (2592\*1944)@25fps
- H.264/H.265/H.265+
- IR Range 30m
- Fixed Lens 6mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Recognition / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### DL-855P22B

- 1/2.8" Sony STARVIS CMOS
- 5MP (2592\*1944)@25fps
- H.264/H.265/H.265+
- IR Range 30m
- Fixed Lens 3.6mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Recognition / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### ES-854N22C-E3

- 1/2.8"CMOS
- 4MP (2592\*1520)@25fps
- H.264/H.265/H.265+
- IR Range 30m
- Fixed Lens 3.6mm
- DWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### ES-854N21C-E3

- 1/2.8"CMOS
- 4MP (2592\*1520)@25fps
- H.264/H.265/H.265+
- IR Range 30m
- Fixed Lens 2.8mm
- DWDR, 3D DNR, BLC, ROI
- Video analytics: Face Detection / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BL-855P48S

- 1/2.8" Sony STARVIS CMOS
- 5MP (2592\*1944)@25fps
- H.264/H.265/H.265+
- IR Range 80m
- Motorized 2.8-12mm lens
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Recognition / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### DL-855P28B

- 1/2.8" Sony STARVIS CMOS
- 5MP (2592\*1944)@25fps
- H.264/H.265/H.265+
- IR Range 30m
- Motorized 2.8-12mm lens
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Recognition / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BS-858M22C

- 1/1.8" Sony CMOS
- 8MP (3840\*2160)@15fps
- H.264/H.265/H.265+
- IR Range 30m
- Fixed Lens 3.6mm
- 120db TWDR, 3D DNR, BLC, ROI



### BS-858M23C

- 1/1.8" Sony CMOS
- 8MP (3840\*2160)@15fps
- H.264/H.265/H.265+
- IR Range 30m
- Fixed Lens 3.6mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Recognition / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### DL-858M22B

- 1/1.8" Sony CMOS
- 8MP (3840\*2160)@15fps
- H.264/H.265/H.265+
- IR Range 30m
- Motorized 3.6-11mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Recognition / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### BL-858M48S

- 1/1.8" Sony CMOS
- 8MP (3840\*2160)@15fps
- H.264/H.265/H.265+
- IR Range 80m
- Motorized 3.6-11mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Recognition / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



### DL-858M28B

- 1/1.8" Sony CMOS
- 8MP (3840\*2160)@15fps
- H.264/H.265/H.265+
- IR Range 30m
- Motorized 3.6-11mm
- 120db TWDR, 3D DNR, BLC, ROI
- Video analytics: Face Recognition / Tripwire / Intrusion / Target counting / Object Detection / Video loss / Video Tampering / Sound Detection / Fire Detection / Scence Change / VQD



## BioFace Lite Solution

### BioUltra Series



### BL-852Q38A

- 1/2.8" 2MP Sony STARVIS CMOS sensor
- H.265+ triple stream encoding
- High-quality optical lens: 3.35-10.05mm
- 50m IR effective range
- Built-in PoE
- An embedded facial recognition algorithm
- The capacity of 2,000 face templates in the camera
- White/Black-list alarm deployment
- Intelligent video analytics available
- Multiple web browsers supported
- Remote viewing with mobile application or VMS
- Lightning protection up to 6kV
- IP67 metal casing



### DL-852Q28B

- 1/2.8" 2MP Sony STARVIS CMOS sensor
- H.265+ triple stream encoding
- High-quality optical lens 3.35-10.05mm
- 30m IR effective range
- Built-in PoE
- An embedded facial recognition algorithm
- The capacity of 2,000 face templates in the camera
- White/Black-list alarm deployment
- Intelligent video analytics available
- Multiple web browsers supported
- Remote viewing with mobile application or VMS
- Lightning protection up to 6kV
- IP67 metal casing



### FI320

- 1/2.8" 2MP Sony STARVIS CMOS sensor
- H.265+ triple stream encoding
- Built-in PoE
- An embedded facial recognition algorithm
- The capacity of 2,000 face templates in the camera
- White/Black-list alarm deployment
- Intelligent video analytics available
- Multiple web browsers supported
- Remote viewing with mobile application or VMS
- Metal casing



### FI330

- 1/2.8" 2MP Sony STARVIS CMOS sensor
- H.265+ triple stream encoding
- Built-in PoE
- An embedded facial recognition algorithm
- The capacity of 10,000 face templates in the camera
- White/Black-list alarm deployment
- Intelligent video analytics available
- Multiple web browsers supported
- Remote viewing with mobile application or VMS
- Metal casing

# BioFace Lite Solution

## BioX Series



### DBL222-01

- With 1 TOPS AI computing power
- 1/2.7" 2MP CMOS
- Ultra low light night vision
- HLC
- 120dB true WDR
- Smart defog
- H.265 compression, support multiple channel encoding, up to 1080P resolution
- Support behavior analysis, abnormal detection, face & body detection, population trend analysis, self-adaptation



### DDS222-01

- With 1 TOPS AI computing power
- 1/2.7" 5MP CMOS
- Ultra low light night vision
- HLC
- 120dB true WDR
- Smart defog
- H.265 compression, support multiple channel encoding, up to 5MP resolution
- Support behavior analysis, abnormal detection, face & body detection, population trend analysis, self-adaptation



### DBL522-01

- With 1 TOPS AI computing power
- 1/2.7" 2MP CMOS
- HLC
- Smart defog
- Support stream AES encryption
- Support flow shaping, precisely control video bursts, smooth video without packet loss
- TCP acceleration, enable network to carry higher quality video streams
- Support code stream smoothing, adapt to different requirements for image quality and fluency in different scenarios
- Support behavior analysis, abnormal detection, face & body detection, population trend analysis, self-adaptation



### DDS522-01

- With 1 TOPS AI computing power
- 1/2.7" 2MP CMOS
- HLC
- Smart defog
- Support stream AES encryption
- Support flow shaping, precisely control video bursts, smooth video without packet loss
- TCP acceleration, enable network to carry higher quality video streams
- Support code stream smoothing, adapt to different requirements for image quality and fluency in different scenarios
- Support behavior analysis, abnormal detection, face & body detection, population trend analysis, scene self-adaptation

### CBL223-C01

- With 1 TOPS AI computing power
- 1/2.7" 2MP CMOS
- Super low illumination
- HLC
- 120dB True WDR
- Smart defog
- Supports quick configuration of stream packages
- Support H.265 compression, dual independent 1080P HD encoding
- Metadata intelligent extraction, providing massive metadata for intelligent applications
- SEC super error correction, smooth video even 20% network packet loss
- Support abnormal detection, face & body detection, scene self-adaptation



# BioFace Lite Solution

## Facial Recognition NVR



### Z8608NF-8F

- 50,000pcs Face database
- Max 80Mbps incoming bandwidth
- Max 80Mbps outgoing bandwidth
- Up to 8MP resolution preview and playback



### Z8636NF-16F

- 100000pcs Face database
- Max 80Mbps incoming bandwidth
- Max 160Mbps incoming bandwidth
- Up to 8MP resolution preview and playback



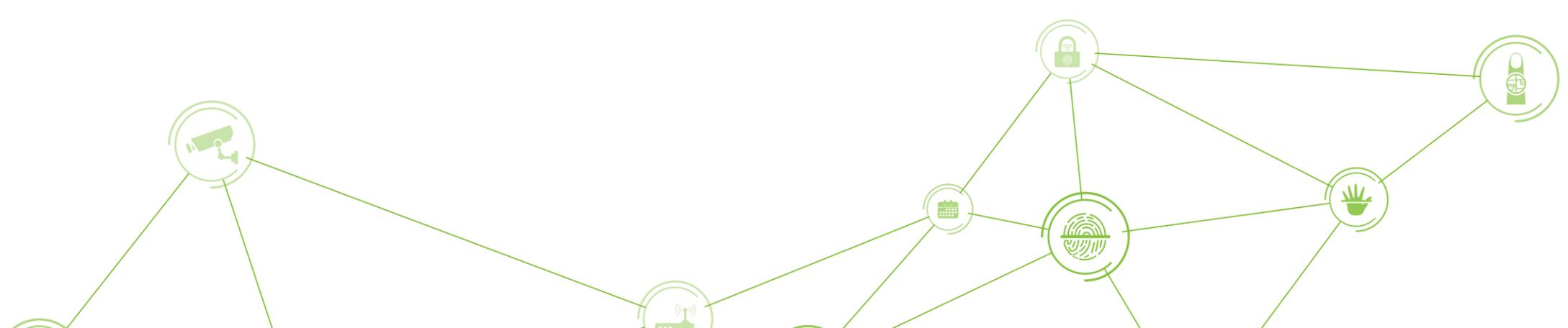
### Z8536NMR-4F

- 5000pcs Face database
- Max 216Mbps incoming bandwidth
- Max 216Mbps outgoing bandwidth
- Up to 8MP resolution preview and playback

# ZKBio Security IVS



Software	ZKBio Access IVS	ZKBioSecurity
Target Market	SMB	Project
Deployment	CPU i5 , 2.5GHz or above Flash Memory 4GB or above	CPU i5 , 2.5GHz or above Flash Memory 8GB or above
Architecture	B/S	B/S
Modules	Video Surveillance Access Control Time Attendance Personnel Management	Full modules
Channels	15 Access+ 5 T/A + 64 channels IP cameras for Free	Unlimited, Charged by licences
Access Control Devices	Access Control Panels(C2 Series) Standalone Access Control Devices with Push Firmware (F18/F19/F21/MB800/etc.) Visible Light Facial Recognition Series Devices	Access Control Panels (InBio Pro Series) Green Label Standalone Series Devices (ProCapture-T/ProBio/ProFAC etc.) Visible Light Facial Recognition Series Devices
Attendance Devices	New Platform Push Attendance Device (IN01-A/U160-C/iClock580/uFace102/etc.) Visible Light Face Recognition Series Device	Green Label Attendance Device(G1/G2/G3/G4) Visible Light Face Recognition Series Device
VMS/Video	BioEco/BioPro/BioUltra Series IP cameras ZKTeco NVR/Facial NVR	BioEco/BioPro/BioUltra Series IP cameras ZKTeco NVR/Facial NVR



# Scenario - Smart Residential

## Key Challenges

With the rapid urbanization, the residential area has emerged as the center of our daily life, especially the activities with our beloved families.

However, the traditional residential setup is facing big challenges with the new development of modern life, like the increasing consciousness of safety, wide usage of vehicles, convenience of and comfort of living environment etc.



### Entrance & Exit



**ANPR Camera**  
ZKTeco ANPR system supports up to 161 countries plate number formats, convenient for registered owners vehicles driving in and out.



**Access Control**  
Support face, fingerprint, ID card triple verification ways for registered owners going in and out.



**Face Recognition**  
Support up 4K high resolution and black/stranger alarm notification.

### Fitness Room



**Access Control**  
Powered by ZKTeco facial recognition Access control, the VIP members could access the Fitness Room by Face and ID card freely.



**People Counting**  
Featured by the advanced head-shoulder high accuracy algorithm, BioX series IP camera could count the number of customers and control the risk of oversize people quantity.

### Perimeter & Area Protection



**Intrusion Alarm**  
ZKTeco BioX series IP camera could set up the perimeter area according to the human (no other objects), if any people intrudes into the deep water area, it will trigger the alert to the security center to double check the safety.



**Abandon/Removal**  
Benefit by the Object Abandon/Removal intelligent functions of BioX series IP camera, it will detect automatically if any object left in the self-defined perimeter and send the alert to the security center.



# Biometrics

In 2020, with the spread of COVID-19, the lives of people all over the world have changed dramatically. Contactless biometrics has attracted more and more attention and favor. ZKTECO is committed to developing innovative technologies and providing multi-mode biometrics solutions. Meanwhile, ZKTECO is constantly developing and improving SDK to provide customers with the best experience.

## Biometrics Products

### Face Recognition Module

#### FA10MS

- Equipped with a full HD wide dynamic camera for face capture
- Dimensions (L\*W\*H): 60mm \* 22mm \* 18.3mm (±1mm)
- Compact size allowing flexible installation in terminals
- An open interface supporting secondary development to realize value-added applications
- Provide ZKNIRface SDK and ZKLiveface SDK Supports visible light and near-infrared face image acquisition



### Face Recognition Module

#### FA11M

- Wide dynamic image sensor, suitable for the indoor environment
- Dimensions (L\*W\*H): 60mm \* 22mm \* 18.3mm (±1mm)
- Supports Windows, Android, Linux, and other System development
- Compatible with USB 2.0 specification
- Low power consumption, where the maximum power consumption of the module is less than 2W



#### FA10R

- Full HD WDR camera for face capture
- Operating Temperature: -10°C ~ 45°C
- FRR=1.41% when FAR=0.001%
- An open interface supporting secondary development to realize value-adding
- Supports visible light and near-infrared light face recognition
- Supports Windows, Android, Linux, and other System development



### Palm Vein Module



#### PV10M

- Touchless technology with smaller size, and easy to integrate
- Built-in distance detection sensor, effectively reduces standby power consumption
- Wide dynamic image sensor to adapt ambient light
- Optimized Palm Vein Sensor and algorithm
- Operating Temperature: -10°C ~ to 55 °C
- FRR=0.68% when FAR=0.001%
- Captures high-quality palm images even when the palm is dry or wet

## USB Palm Vein Scanner



### PV10R

- **Non contact** : No need to touch, clean, no trace, excellent comfort
- **Perfect after-sales service**: Provide Windows, Android, Linux SDK
- **Extreme precision**: FRR=0.68% when FAR=0.001%
- **Powerful**: Built-in ZKTeco's latest palm recognition algorithm, with excellent FAR/ FRR performance, supports palm registration, template generation and other functions

## USB Fingerprint Scanner



### SLK20R

- Stable operation under strong light
- Support live fingerprint detection function
- Large fingerprint capture area and high image performance
- Quick recognition of dry, wet and rough fingerprints
- High Speed USB 2.0
- Low Power Idle Mode
- Available SDK for development

### Bio30R

- Standard high-precision fingerprint recognition technology and optimized image processing
- Effective Collecting Area : 12.8 \* 18.0mm
- Adopts international top semiconductor sensors, precise imaging, and fast acquisition speed
- Good imaging quality of dry / damp / rough finger skin suitable for a wide range of people
- Drive free fingerprint scanner, not required to install a driver; plug and play
- Supports Windows, Android, Linux, and other Operating System development



### ZK9500

- Support ngerprint scanning function
- Effective Collecting Area : 15.24 \* 20.32 mm
- Quick scanning of fingerprint on dry, wet or rough ngertips
- FRR: <1%, FAR:<0.0001%
- Windows, Android, Linux SDKs available for development
- High speed USB 2.0



### Bio30S



- Fingerprint enrollment, image capture, template extraction
- Fingerprint comparison (including 1: 1 and 1: N), template deletion and more functions
- Effective Collecting Area : 12.8 \* 18.0mm
- The fingerprint algorithm supports automatic correction recognition, support 360 ° rotation collection match
- Light and small in size; can be flexibly embedded into various products
- Open application program interface (such as SDK) available
- Supports dry, wet or rough fingerprints

## SDK



### ZKFace SDK Visible Light

- Authentication: support 1:1 & 1:N (10K)
- Algorithms developed by ZKTeco, 5.6 visible light Algorithm with anti-spoof function
- FRR=0.26% when FAR=0.01%
- Recognition Time: <400ms
- Contactless, convenience, wide pose angle acceptance
- Reasonable prices, customer support
- Track faces in 3ms, real time live face detection prevents spoofing



### ZKPalm SDK

- Authentication: support 1:1 & 1:N (6K)
- High performance : FRR=0.68% when FAR=0.001%
- Live palm vein for real or fake palm identification
- Supports multiple development languages
- Support 360-degree rotation
- Near infrared imaging capture, identify different palm colors

### SLK20S

- Light and mini (thickness of the sensor is only 16mm)
- Effective Collecting Area : 15.24 \* 20.32 mm
- FRR: <1%, FAR:<0.0001%
- Local encrypted storage of 8,000 fingerprint templates
- Offline fingerprint comparison available
- Embedded 2-megapixel CMOS, providing clear and high-quality fingerprint images
- FBI PIV, Mobile ID FAP20, and STQC certified
- Developed based on the Linux operating system, stable and excellent security performance
- Fingerprint comparison speed is 4 times faster than SLK20M with the same storage capacity



# Smart Retail

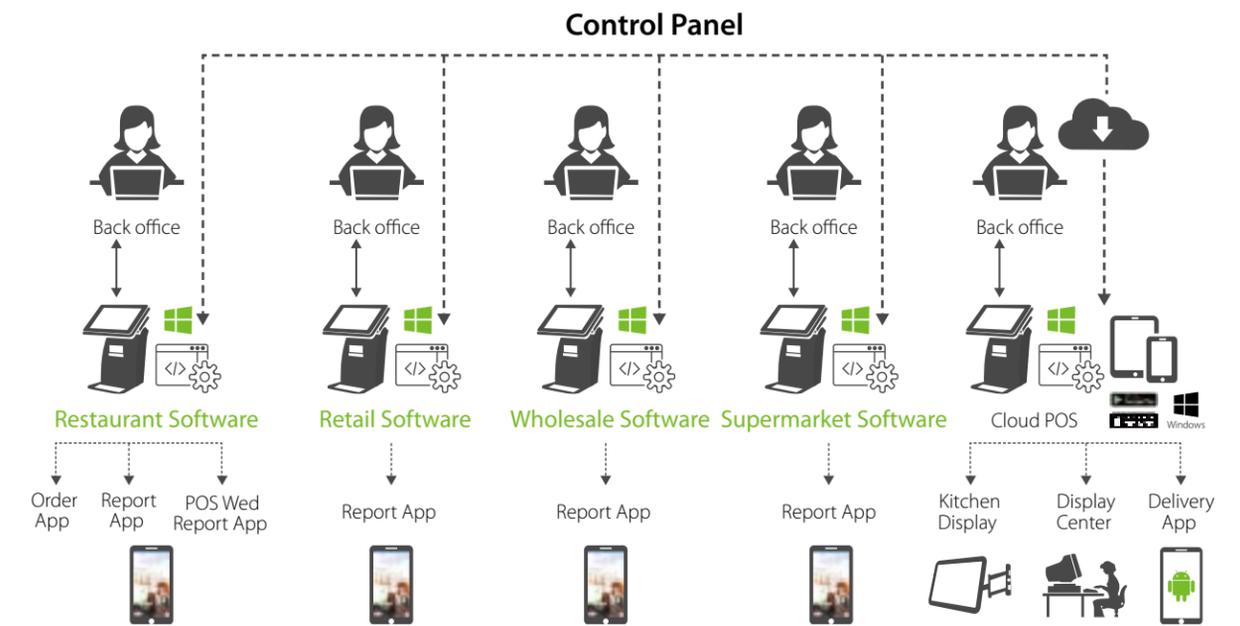
Biometric verification technology is making way into the retail and hospitality industries as a quick way to manage POS system. And ZKTeco biometrics-based POS hardware and software would be the first step to smart retail and hospitality market, which will help customers to combat employee theft and fraud while improving auditability and manager accountability.



## ZKPOS Biometric Software

ZKPOS Software V3.0 is a cashier management software designed to improve customer operational efficiency and provide faster service for cashiers. ZKPOS currently has two versions of catering and supermarket, and it's strong compatibility allows ZKPOS to be used on most cash registers. It's can support local and Internet cloud solution, not only can use at retailers, but also for chain store. Can combine with multiple applications to use, make customers have a better experience when using the order application. The inventory management and background report application allows managers to know the sales situation of the store at home, achieve remote management.

### ZKPOS Software Architecture



### ZKTeco Machine's Solutions



# ZKTeco POS Terminals

## ZKBio810

- Power-efficient Intel® Celeron J1900 2.0 GHz Quad-Core processor
- Optional Intel® Core i3 and i5 processor
- Standard with 2G RAM and 32G SSD
- Support VFD and 10.1" or 15" 2rd display
- Fingerprint verification makes transaction more safe
- Multiple I/O interfaces for peripherals



## ZKAIO1001

- Android 9.0 Operating System
- Quad-core Cortex-A35 1.4GHz PX30
- Multi-point projected capacitive touch screen
- Built-in 58mm thermal printer
- Built-in one/two dimension scanner
- Multiple I/O interfaces for peripherals



## ZKBio910

- Power-efficient Intel® Celeron J1900 2.0 GHz Quad-Core processor
- Optional Intel® Core i3 and i5 processor
- Fingerprint verification makes transaction more safe
- Modular design with aluminium alloy material
- Dual hinge stand, table stand and standard VESA mount
- VFD and second display can be adjusted in angle
- Easy to hide cables and fanless design



## ZK90

- Anti - cutting machine function design, supporting remote firmware update
- Large capacity battery, supporting high-speed printing
- Simple and fashionable: 2CM thin body create comfort grab feel
- Low power consumption, supporting 100 hours standby, 500 transactions can be completed

## ZKBio610

- Power-efficient Intel® Celeron J1900 2.0 GHz Quad-Core processor
- Optional Intel® Core i3 and i5 processor
- 15" Bezel-Free true-flat display with PCAP touch
- Support VFD and 10.1" or 15" 2rd display
- Dual hinge stand, table stand and standard VESA mount
- Multiple I/O interfaces for peripherals



## ZKH300

- Android 9.0 operating system: adopt the open android system
- Can let the user a simple and efficient development of the upper application
- 2g/3g /4g/wifi, bluetooth communication
- Capacitive touch screen, support the electronic signature
- Support for recording, voice broadcast, Support video play back/recording



# ZKTeco POS Peripherals



## ZKBio510

- Power-efficient Intel® Celeron J1900 2.0 GHz Quad-Core processor
- 15" Bezel-Free true-flat display with PCAP touch
- Standard with 2G RAM and 32G SSD
- Support VFD and 15" 2rd display
- Multiple I/O interfaces for peripherals



## ZKP8008 (Thermal Printing)

- Hidden cable slot, specially designed for wall mounting
- Lightweight and clean in shape
- High-quality printing in low cost
- Low noise and high-speed printing
- Easy for paper refill, easy maintenance and excellent structure
- Low power consumption and low operating costs

### ZKP8003 (Bluetooth Printer)

- Bluetooth wireless connection
- 90mm/s high speed printing
- Support QR code and barcode
- Support multi-languages
- Built-in 2000mAh/7.4V lithium battery



### ZKB209 (2D Barcode Scanning Platform)

- New decoding chip, interpretation of various 1D & 2D barcode
- Professional technology, can scan WeChat/alipay bar code
- It supports 650nm red LED light scanning technology
- Multiple I/O interfaces for peripherals
- Plug and play, simple setup, fast use

### ZKC0408 (Metal Cash Drawer)

- 4 Bills, 8 Coins
- 1 Check Slots, 3 Position Lock
- RJ11(Directly connected with receipt printer and cashier interface 12V or 24V )
- The shell is made of cold-pressed steel plate and the drawer is made of ABS



## ZKTeco Consumption Machine



### ProMerc-100 (Facial Recognition Cafeteria Management Terminal)

- Verification modes: facial recognition, ID / MF card, fingerprint (external connection)
- Consumption modes: fixed value mode, commodity mode, amount mode (calculation mode), counting mode, and offline mode
- Report: consumption details, consumption summary, meal details, meal summary, ordering report, etc
- Interface: Android system, intuitive and well-designed interface
- Anti-counterfeiting recognition: alive body detection, facial recognition, etc
- Support receipt thermal printer(external connection)



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