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# Visible Light Facial Recognition Product Catalogue

2020

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## OVERVIEW

Since 1998, the founders of ZKTECO CO., LTD (ZKTeco) have been striving for independent research and development of biometric verification algorithms and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years' experience of the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally-leading enterprise in biometric verification profession, owning various patents and being selected as National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

At present ZKTeco has globally 3,500 employees with approximately 1,000 R&D staff among them. Headquarters have been established in Dongguan and Xiamen. The Dongguan headquarter owns modernized manufacturing base, Xiamen Headquarters focuses on the establishment of the enterprise's software development base and solution innovation center.

ZKTeco has various R&D, design and innovation centers in Silicon Valley, Europe, South Korea, Xiamen, Dalian, Shenzhen, Hangzhou, etc. Its sales channels and service networks are widely distributed in the major cities in China, and regions and countries in the world.

ZKTeco strives to integrate intellectual property rights biometric verification techniques, including fingerprint, facial recognition, finger vein, iris recognition with techniques related to the Internet, Internet of Things, big data, cloud computing and intellectualized engineering, and offers integrated and applied solutions and services, including smart security, smart education, smart medicine, smart finance, smart office, smart community, smart judiciary, smart construction sites, smart tourist spots, identity authentication, city anti-terrorism, and Xue Liang Project to enterprises, judiciary organizations, governments, military units, financial organizations, institutes, construction sites, traffic and so on.

• Visible Light Facial Recognition Technology Introduction



**Application for Visible Light Facial Recognition**

Visible Light Facial Recognition System is able to automatically recognize and track faces in videos. After installation, system is enabled to actively collect face images and perform matching and identification upon any human activity in its 3-meter distance. Upon successful verification, staffs are free to have entrance and exit without any queuing and waiting needed.

The Visible Light Facial Recognition System is widely suitable for various applications including offices, warehouses, clinics, manufacturing plants, catering premises and constructions sites etc. For staffs that have been tired of long queue, it no longer requires waiting long time and walking in front of conventional passive recognition systems for fingerprint or facial verification. Instead, with the great convenience and efficiency brought by the Visible Light Facial Recognition System, staffs only need to walk straight through and the system actively match faces and data.



Office Buildings



Warehouse



Clinic



Factories



Restaurants



Construction site

**Proactive Facial Recognition**

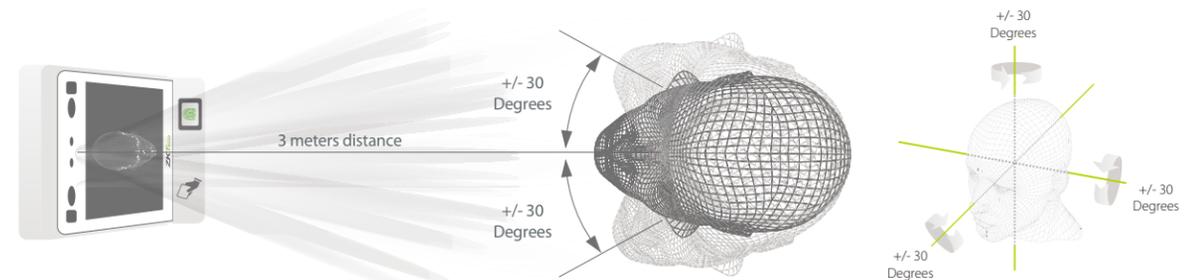
Visible Light Recognition is a proactive facial recognition device, users no longer need to stand steadily in front of camera. When users pass through the specific area, they are possibly recognized automatically.



Proactive Facial Recognition

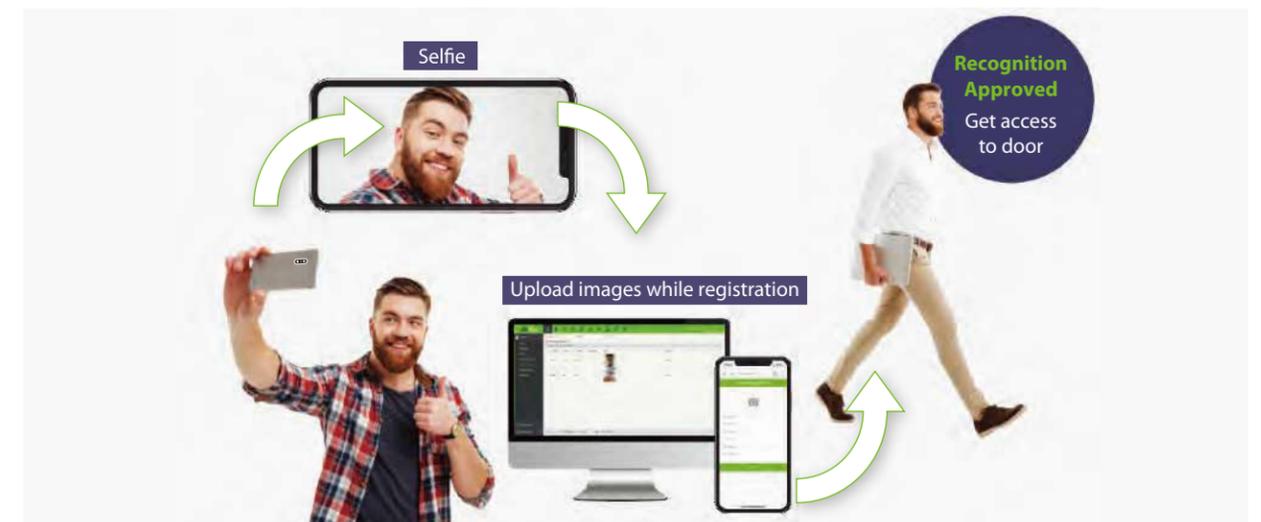
**Recognition Distance Up To 3m Long And Extra Wide Angle Recognition**

The recognition distance has been greatly extended up to 3 meters long, which significantly improves maximum traffic rate. While most of algorithms only support 15-degree angle facial recognition, ZKTeco supports 30-degree angle facial recognition.



**User-friendly Mobile App Selfie Registration And Alert Pop-up**

User-friendly mobile photo-capture face registration function, supports iOS / Andriod versions. Management staffs only need to use mobile phones or tablet devices to capture self image and upload to ZKBioFace for registration. After registration the faces can be conveniently set as blacklisted or whitelisted.



## • Visible Light Facial Recognition VS Near-infrared Facial Recognition

**Facial Recognition Comparison Table  
(Visible Light Facial Recognition VS Near Infrared Facial Recognition)**

Function, Specification \ Technology	Visible Light Facial Recognition (New)	Near Infrared Facial Recognition
Face Template Capacity	Up to 50,000	Up to 2,000
Recognition Speed	<0.3 Second	<2 Seconds
Recognition Accuracy	Lower FRR, FAR	Higher FRR, FAR
Recognition Distance	Up to 3m	<30 cm
Recognition Tolerance	Face can be recognized even face is partially covered	Face cannot be recognized when face is not completely shown
Recognition Angle Tolerance	<30 Degrees (including pitch, yaw and roll)	<5 Degrees
Anti-Spoof Ability	Live Face Detection, Fake Photo Detection, Fake Video Detection, Mask Detection	Photo Detection Only
Development Availability	Android EDK & Linux SDK Available	Linux SDK Available
Anti-Strong Light	50,000 Lux Environment Light, 4,000 Lux Backlight	Facial Recognition Fail when there is Backlight
Facial Template Registration Speed	<0.5 Second	<15 Seconds
Facial Template Registration Method	Mobile Phone Camera, Image File Import, Terminal	By Terminal Only
Duplicated Face Template Detection	Completely Supported for Different Facial Expression	Partially Supported

### From Near-infrared Facial Recognition to Visible Light Facial Recognition:

Facial recognition is not a new technology in biometrics industry, ZKTeco has already developed facial recognition technology for more than a decade. Initially we applied near-infrared facial recognition technology to our devices which was the most advanced technology then that was able to recognize up to 2,000 users for a single terminal, and the recognition speed was reduced to less than 1 second. Surely, that was not a perfect solution, the limited pose angle tolerance, imperfect anti-spoof performance, and short recognition distance were weak points to be tackled, though technologies were so constrained that time. As time goes by, because of the technology boom brought by computer vision and deep learning, finally we have the technologies to fix all the weakness, and we named the new recognition

technology as "Visible Light Facial Recognition" as it is able to operate under normal lighting environment, and no longer needs infrared sensors which in the past was compulsory to near-infrared facial recognition terminals. As the result, the visible light facial recognition has successfully tackled all the previous challenges and reached a new height of the facial recognition performance, in terms of providing up to 3 meters long recognition range that can widely extend its application to a higher security scenario, VIP management, and busy working environment. Moreover, the computer vision technology has enhanced its facial recognition angle tolerance to +/- 30 degrees (Pitch, Yaw & Roll), and enriched its accessories tolerance performance, most of the daily used accessories such as glasses, sunglasses, hair band and even surgery mask will not affect its recognition accuracy. Besides that, the ultra-high recognition (less than 0.3s / recognition) and tremendous high facial templates capacity (up to 50,000 templates per terminal) are the other highlights of this technology. Last but not least, with the special characteristics of deep learning, the visible light facial recognition technology will keep evolving and utilize itself as close as to be perfected, and I believe we are all expecting to it.

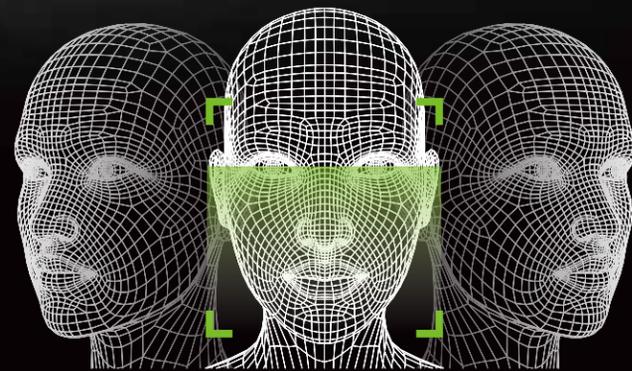
## • Linux Firmware & Android Firmware

	Android Firmware	Linux Firmware
3rd Party Integration	Android EDK	Linux SDK
Stability	Medium	High
Communication Protocol	4G, 3G, 2G, Bluetooth, TCP / IP, Wi-Fi, Infrared	TCP / IP, WiFi
Platform Availability	Open-source	Open-source
High Level Access Control	Will be available on mid of Oct, 2019	Supported
Max supported Facial template per terminal	10,000	50,000
Facial Recognition Speed	<0.5s	<0.3s

Inspired by the idea of IoT, system integration is now becoming the mainstream of I.T. and technology application development, under this technological trend, any form of individualism and isolation will no longer exist or is only available in some quiet corner.

As we all know, Android and Linux are two very different systems, Android was originally developed for digital devices such as smartphones, tablets, and laptops. Therefore it naturally has excellent communication protocol compatibility for 3G, 4G, and Bluetooth etc. Android, as the most popular mobile operation system in the world, has got hundreds of thousands of engineers ready in the market, and some of them are already ZKTeco's customers. Thus there is no worries of the lack of engineers for development. Furthermore, Android offers greater flexibility for integration as there have already been many applications developed in Android. Linux, which was originally built for computers and servers, is famous for its superb stability, more than 70% of the industrial-grade digital devices are using Linux. Moreover, Linux is an open-source system, which offers a very large tolerance to system developers for further development.

As a technological based company, ZKTeco fully acknowledges its necessity and has developed 2 sets of firmware in both Linux and Android operation system, in order to provide a better and simpler integration platform for system integrators to best suit their needs.



## Access Control & Time Attendance Terminal

### G4L

- Visible Light Facial Recognition
- Liveness Face Detection
- Facial Recognition Speed  $\leq 0.5s$
- Facial Recognition Distance 0.5m ~ 3m
- 10,000 Face, 10,000 Fingerprint, 10,000 Cards
- Transactions: 1,000,000
- Function: TCP/ IP / Wi-Fi / Lock Relay Output / Door Sensor / Alarm Output / Exit Button / Wiegand Input / Wiegand Output / RS485
- 7-inch Touch Screen, 1280\*720 Pixel
- 2MP WDR Low Light Camera
- OS: Linux

#### Hardware

- 2GB DDR3 RAM
- 16GB ROM
- SilkID Fingerprint Sensor
- 7-inches Touch Screen, 1280\*800 Pixel
- 2NP Binocular Camera



### G4

- 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
- Function: TCP/ IP / Wi-Fi / Lock Relay Output / Door Sensor / Alarm Output / Exit Button / Wiegand Input / Wiegand Output
- 7-inch Touch Screen, 1280\*800 Pixel
- 2MP Binocular Camera, 2GB DDR3 RAM, 16GB ROM

#### Hardware

- High Performance Android Industrial CPU
- 2GB DDR3 RAM
- 16GB ROM
- SilkID Fingerprint Sensor
- 7-inches Touch Screen, 1280\*800 Pixel
- 2NP Binocular Camera



### ProFace X

- Ultra-large capacity of facial templates; 1:N - 30,000 facial templates, maximum 1:N - 50,000 facial templates
- Rapid facial recognition within 0.3s
- Anti-spoofing algorithm against print attack (laser, color and B/W photos), videos attack, and 3D mask attack
- Facial Recognition works at a distance of 2.5m
- 2MP CMOS sensor camera with WDR function, which enables the terminal to recognize faces under extremely lighting conditions (0.5 lux to 60,000 lux)
- Supplement light with adjustable brightness
- IP67 dust and waterproof standard and IK04 protection standard
- Wide range of working temperature  $-30^{\circ}C \sim 60^{\circ}C$  ( $-22^{\circ}F \sim 140^{\circ}F$ )

#### Hardware

- 900MHz Dual Core Customized AI CPU
- 512MB RAM / 8G Flash
- 8" High light (400lux) IPS Touch LCD
- 125KHz EM Reader / 13.56MHz MF (Optional)
- 2MP WDR Low Light Camera
- Adjustable Light Brightness LED
- Hi-Fi Voice
- Receiver Sensitivity Microphone
- Distance Detection Sensor
- Reset Button and Tamper Switch



## Elite Access

- Quick facial recognition in 0.3 second
- Anti-spoofing algorithm against print attack, videos attack, and 3D mask attack
- IP68 dust and waterproof standard and IK04 impact protection standard
- Wide range of working temperature -30°C ~ 60°C (-22°F ~ 140°F)
- Ultra-large capacity of facial templates; 1:N – 30,000 facial templates, optionally supports maximum 1:N – 50,000 facial templates
- Outdoor facial recognition works at a distance of 3m
- 2MP WDR Low Light Camera, facial recognition under extreme lighting conditions (0.5 lux – 50,000 lux)
- Support several communication modes, TCP/IP, Wi-Fi (Optional), RS485, RS232

### Hardware

- 900MHz Dual Core Customized AI CPU
- 512MB RAM / 8G Flash
- 125KHz EM Reader / 13.56MHz MF (Optional)
- 2MP WDR Low Light Camera
- Hi-Fi Voice
- Microwave Distance Detection Sensor
- 8" High Light IPS Touch LCD
- Reset Button & Tamper Switch



## SpeedFace-V5L

- 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 / Password
- Supplement light with adjustable brightness
- OS: Linux
- Face Capacity: 10,000
- Fingerprint Capacity: 10,000
- Card Capacity: 10,000 (Optional)
- Transactions: 200,000

### Hardware

- 900MHz Dual Core CPU
- Memory 512MB RAM / 8G ROM
- 2MP WDR Low Light Camera
- Adjustable Light Brightness LED



## MB560-VL

- Enhanced Visible Light Facial Recognition with Deep Learning built-in
- Anti-spoofing algorithm against print attack (laser, color and B / W photos), videos attack and 3D mask attack
- Multiple verification with Fingerprint, RFID, and Facial Recognition
- Capacity: 3,000 face; 3,000 fingerprint; 10,000 card (optional)
- 100,000 transaction capacity
- Recognition distance: 0.3 - 1.5 m
- Supplement light with adjustable brightness
- OS: Linux
- Optional multiple card modules: ID / IC

### Hardware

- 2.8-inches TFT Screen
- Dual core CPU
- 512MB RAM / 8G ROM
- 2MP WDR Low Light Camera
- TCP / IP, Wi-Fi (Optional), USB-Host
- 3rd Party Electric Lock, door sensor, and exit button



## Horus

- Enhanced Visible Light Facial Recognition with Deep Learning built-in
- Anti-spoofing algorithm against print attack, videos attack, and 3D mask attack
- Multiple communication protocols: 4G, Wi-Fi, Bluetooth, and USB
- Development options: Embedded GPS / A-GPS, microphone, and PIR sensor
- Extra large 2MP CMOS with WDR function
- Fingerprint, RFID/MF, TCP/IP, access control, and 433 wireless communication modules available
- 5-inches IPS touch LCD monitor

### Hardware

- Android 8.1
- Quad-core 1.5GHz CPU
- 2MP Dual Camera
- 720\*1280, IPS touch LCD screen

### Capacity

- Users: 10,000
- Face: 6,000 / 10,000 (optional)
- Fingerprint: 6,000 / 10,000 (optional)
- Card: 10,000



## FaceDepot-7B

- Enhanced Visible Light Facial Recognition with Deep Learning built-in
- Dual-camera for real-time face detection
- Recognition distance: 0.3 - 3 m
- Compatible with external RS232, RS485 and Wiegand reader
- Compatible with ZKTeco and 3rd party barrier
- IP65 ingress protection rating

### Hardware

- 7-inch touch screen (1280 x 720 pixel)
- 2G RAM / 16G ROM
- 2MP dual lens
- TCP / IP, USB Host, Wi-Fi (optional), RS232, RS485 for external reader, Wiegand Input / Output
- Door lock, door sensor, alarm, exit button, and auxiliary input
- IP65

### Capacity

- Users: 10,000
- Face: 10,000
- Fingerprint: 10,000 (optional)
- Card: 10,000 (optional)
- Log: 100,000



## FaceDepot-7BL

- Enhanced Visible Light Facial Recognition
- Anti-spoofing algorithm against print attack (laser, color and B/W photos), videos attack, and 3D mask attack
- 125KHz ID Card & 13.56MHz IC card and Fingerprint optional
- OS: Linux

### Hardware

- 7-inch touch screen (1280 x 720 pixel)
- 2G RAM / 16G ROM
- 2MP dual lens
- TCP / IP, Wi-Fi (optional), RS485 for external reader, Wiegand Input / Output
- ADMS, T9 Input, DST, Camera, 9 digit user ID, Access Levels, Groups, Holidays, Anti-passback, Record Query, Tamper Switch Alarm, Multiple Verify Mode

### Capacity

- Users: 10,000
- Face: 10,000
- Fingerprint: 10,000 (optional)
- Card: 10,000 (optional)
- Transaction: 200,000



# Integration Terminal

## FaceKiosk Series

Multipurpose Facial Recognition Smart Device with Android System



FaceKiosk-V43



FaceKiosk-V32



FaceKiosk-H32



FaceKiosk-H21

### Features

- Multi-language (English, Thai, Spanish, Arabic, Turkish, Russian, Korean, Indonesian, Brazilian Portuguese)
- Fast verification recognition distance of 1 - 5 meters
- Simultaneous dynamic recognition of 3-5 people
- Dynamic advertisement display
- Interactive operation experiences
- Enhanced security level anti-spoofing liveness detection
- Unique registration, one facial template per user
- Strong Flexibility and adaptability in application

### Hardware

CPU: Quad-core A17 2.0GHZ  
 Memory: DDR3 4GB RAM/32G ROM  
 Communication: TCP/IP, WIFI, USB, Bluetooth, Wiegand  
 Operating System: Android 7.1.2

### Capacity

User 10,000  
 Face Template 10,000  
 Log 100,000



Printer+QR Scanner

FaceKiosk-H13C



FaceKiosk-H13A

### Features

- Multi-language (English, Thai, Spanish, Arabic, Turkish, Russian, Korean, Indonesian, Brazilian Portuguese, Cantonese)
- Support 1:1 and 1:N face comparison
- Interactive operation experiences
- Unique registration, one facial template per user
- Strong edibility and adaptability in application
- The combination of barcode and printer can be combined to meet different customer needs (only H13C)

### Hardware

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

### Capacity

User 10,000  
 Face Template 10,000  
 Log 100,000

## Face Camera series

Visible Light Facial Capture / Identification camera series based on the intellectualized engineering embedded algorithm



FI710

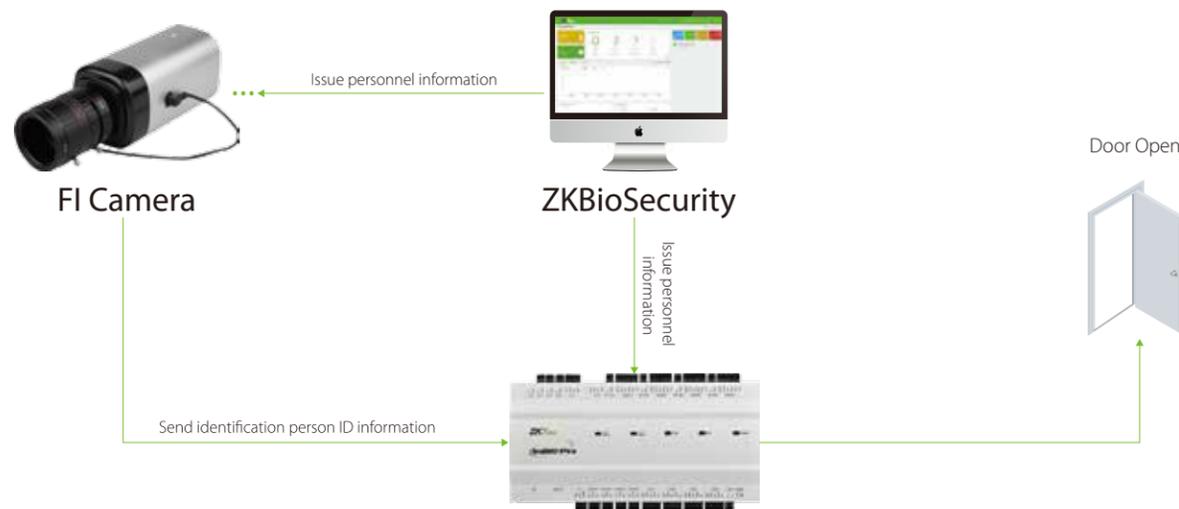
- 1/1.8" 2-million pixel line by line scan CMOS, 12 - 50mm focus
- 2M, 1920 X 1080 @ 30fps
- Supports GB/T28181 and Onvif
- RJ45 10M/100M self-adaptive network
- Supports H.265/H.264 high definition low bit stream coding
- Expanding local storage with micro SD card with 256GB
- Supports HTTP Secure for secure communication
- Supports fog penetration function



## BioServer Pro 2

- CPU: Intel E5-2600 x 2, GPU processor
- Algorithm: 1:N 200,000 capacity
- 1:N image concurrent comparison: 125 pictures / second
- Supports 1080p video and JPEG image
- Supports Blacklist and VIP
- Supports Facial Recognition, Gender, and Age Analysis

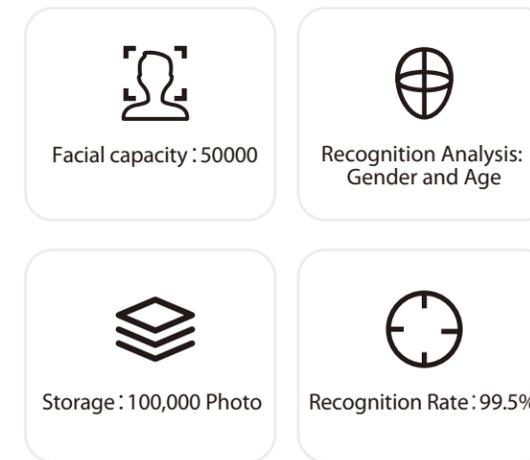
### Solution 1: With Inbio Pro 160 / 260 / 460



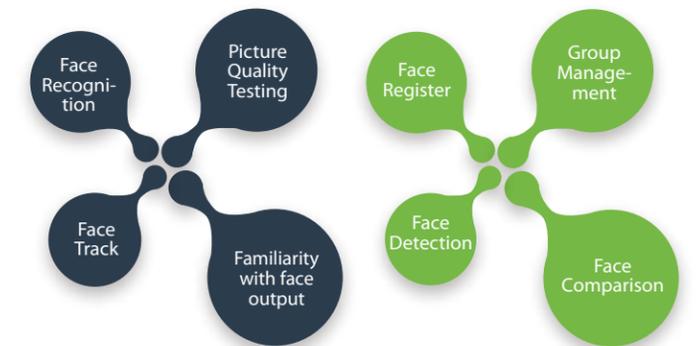
### Solution 2: With SRB



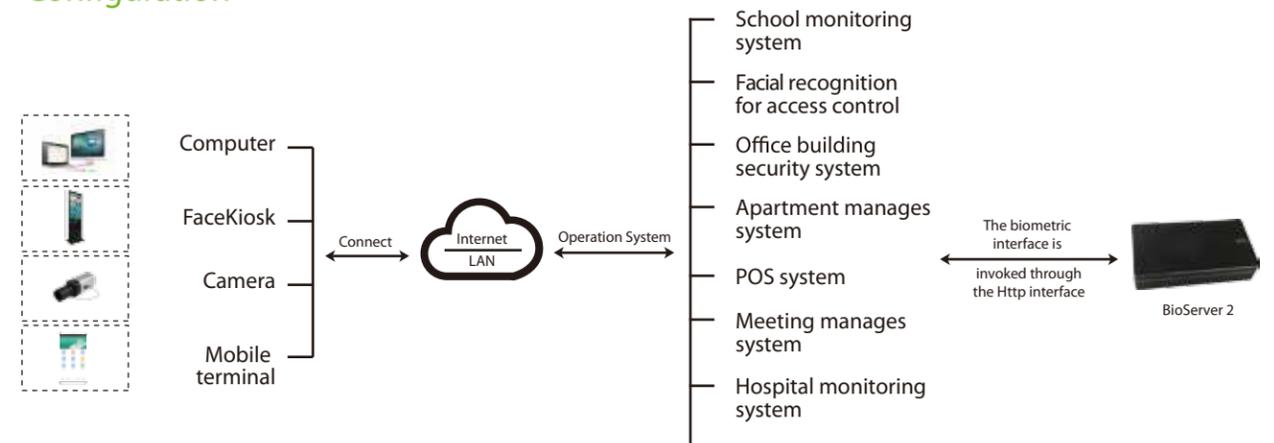
### System Parameter



### Core Functions



### Configuration



# BioTime 8.5

Powerful Web-based Time and Attendance Management Software



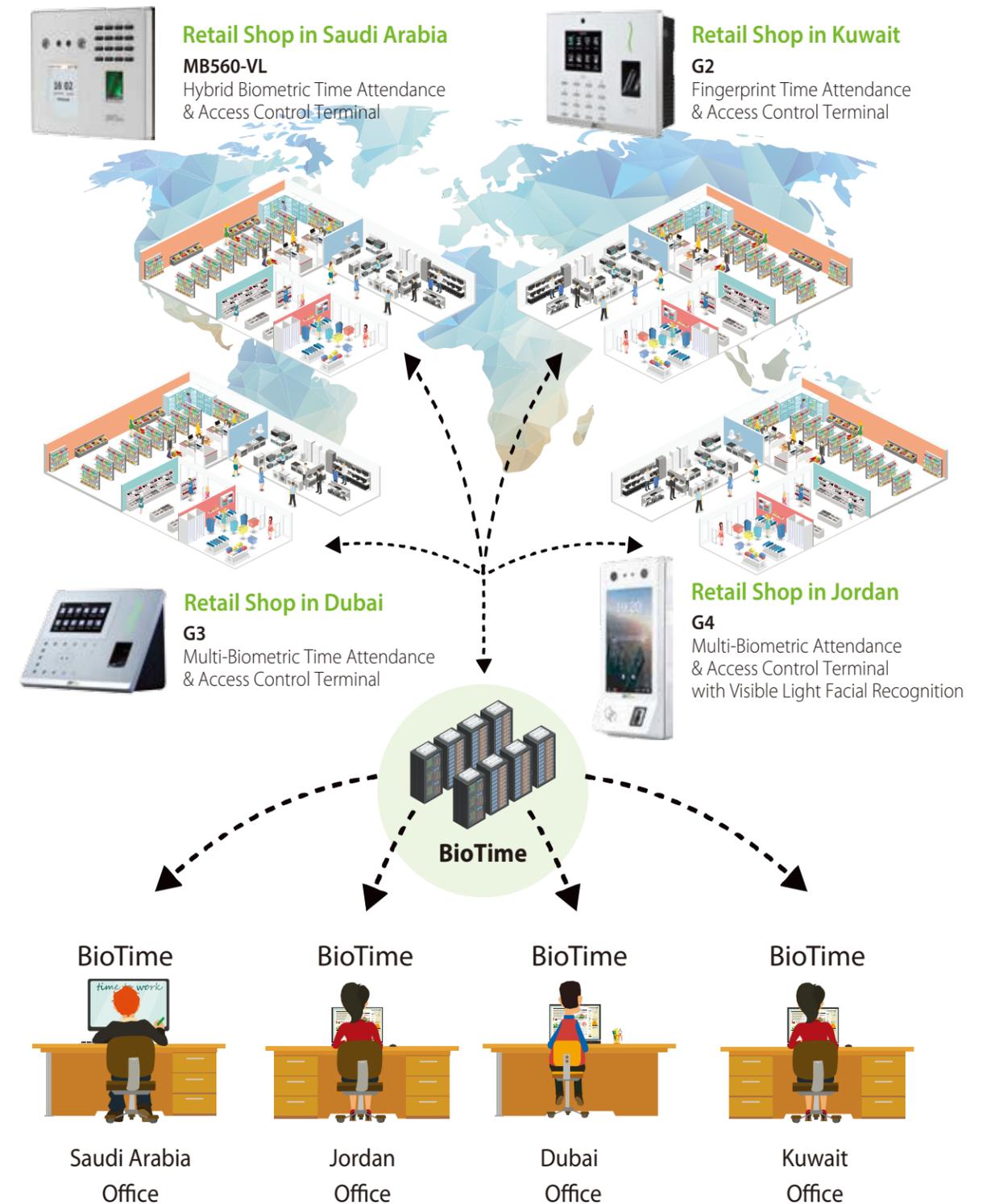
BioTime 8.5 is powerful web-based time attendance software which provides a stable communication for thousands of time and attendance devices through Ethernet / Wi-Fi / GPRS / 3G.

-  Web-based Time Attendance Software
-  Auto Synchronizes Biometric Templates by Area
-  Multiple Approvals & Email Alerts
-  Multiple Admin Privilege
-  Flexible Shift Schedule & Smart Shift
-  Employee Self Service
-  Attendance Calculation and Various Reports
-  Real-time Monitoring
-  Supports Access Control
-  Easy Integration by API
-  Payroll Management
-  Mobile Application

Software Specifications			
System Architecture	Server / Browser		
Device Capacity	500 in a single server		
Database	PostgreSQL (Default) / MySQL5.0.54 / MS SQL Server 2005/2008/2012/2014 / Oracle 10g/11g/12c		
Supported OS	Windows 8/8.1/10 / Server 2003/2008/2012		
Monitor Resolution	1024 x 768 or above		
Hardware Specifications			
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 devices, please contact ZKTeco.

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





## Enterprise Grade All-in-One Solution

# ZKBioSecurity

All-in-One Biometrics Security Solution

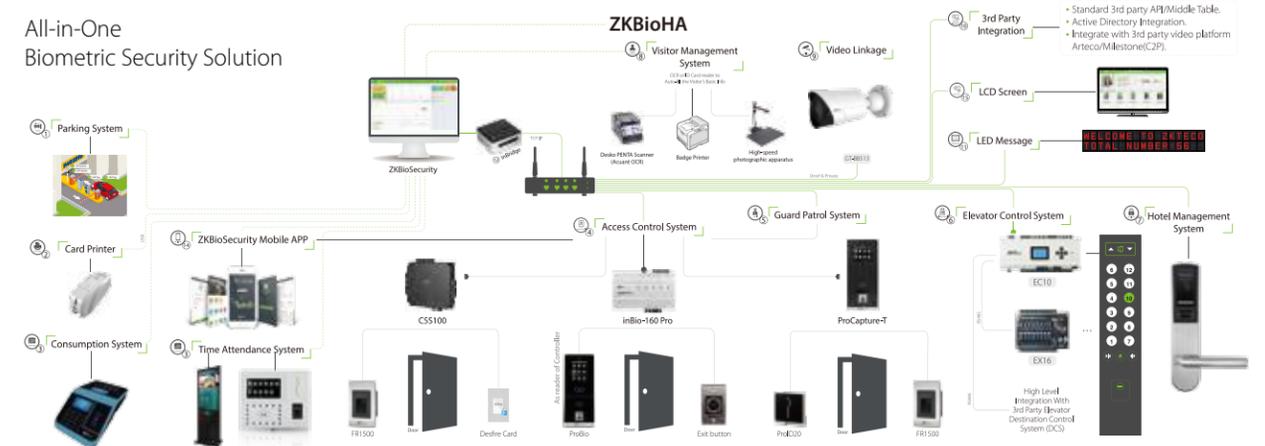


Personnel Access Attendance Consumption Elevator Hotel Visitor Parking Patrol Video

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 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 stand-alone device etc., Newly added consumption module provides overall solution for 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 level.

## Solution:

### All-in-One Biometric Security Solution

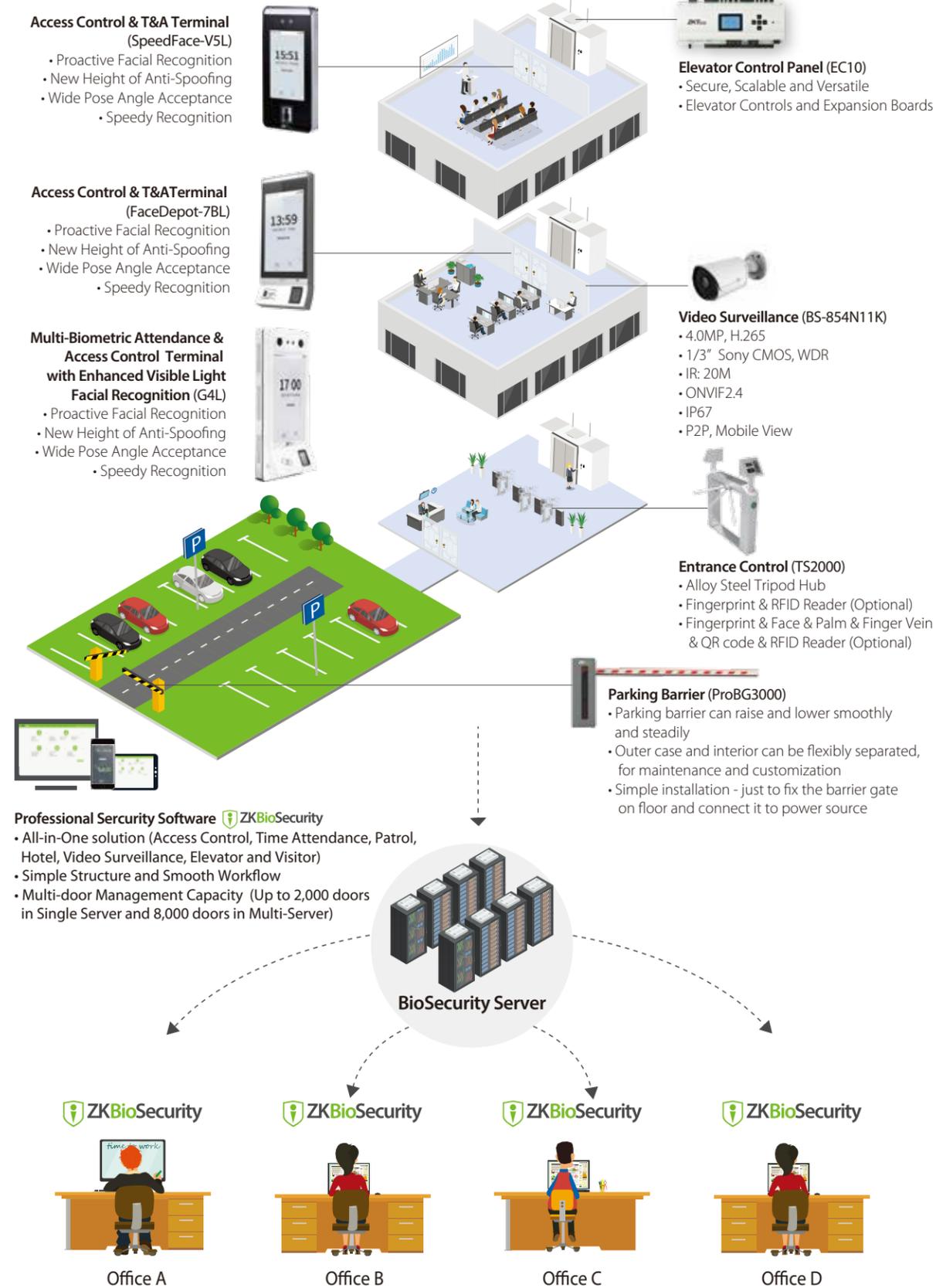


## Features:

- |  |  |  |  |  |                                   |
|--|--|--|--|--|-----------------------------------|
|  | 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



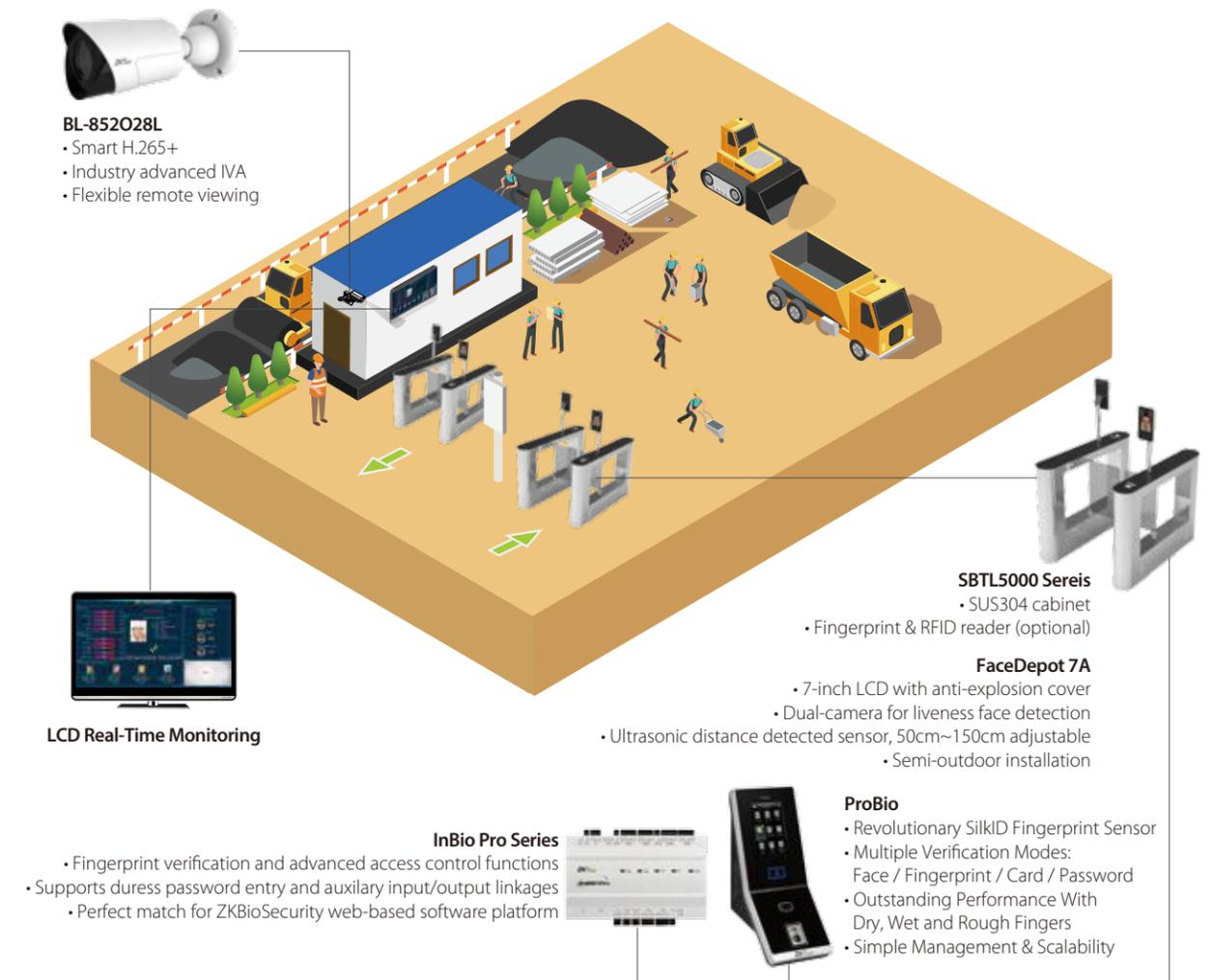
# ZKBioSecurity Parking Management Solution

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 which provides 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 the red cars application.



# ZKBioSecurity ConSite

Integrated with ZKBioSecurity biometrics and personnel identification, ZKBioSecurity ConSite is newly added the worker 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.



## SMB Grade Access Control Solution

# ZK Bio Access



ZK Bio Access is the web-based security platform which offers a complete security management platform, it comes with personnel and access control module

### Personnel

This module primarily consists of two parts: Department Management settings, which is used to set the company's organizational chart; and Personnel Management settings, which is used to input personnel information, assign departments and sub-departments (more than 10 levels), maintain and manage personnel information and settings.

### Access Control

This module is a web-based management system which enables advanced access control functions, management of networked access control panels and standalone terminals via computers and unified personnel access management. Also, the door opening time and access levels for registered users could be set in this module.

### System Management

This is designed to manage the database, set system parameters, assign system users, configure the corresponding modules and manage system operation logs.

#### Feature

- New and friendly user interface design
- Reliable access control logic
- Stable, fast and consistent communication
- Automatic data backup
- Alarms and events email notification
- System log monitoring system
- Supports maximum 10 doors management at remote site
- Supports inBio series / C3 series devices
- Supports Visible Light Facial Recognition devices
- Supports standalone access control PUSH firmware devices
- Available to upgrade to standard ZKBioSecurity software

Latest Compatible Software Version: ZKBioAccess 1.0  
 Demo Link: <http://110.80.38.74:8880/bioLogin.do>  
 User Name: admin / Password: admin



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

ZKBio Access is a slim version of a web-based security platform developed by ZKTeco which is designed to focus on access control. Its reliable access control module for up to 10 doors comes along with a user-friendly interface design and simplified system architecture to ensure better access control management experience.

