

Scramble QR Code & Barcode Access Control Solution

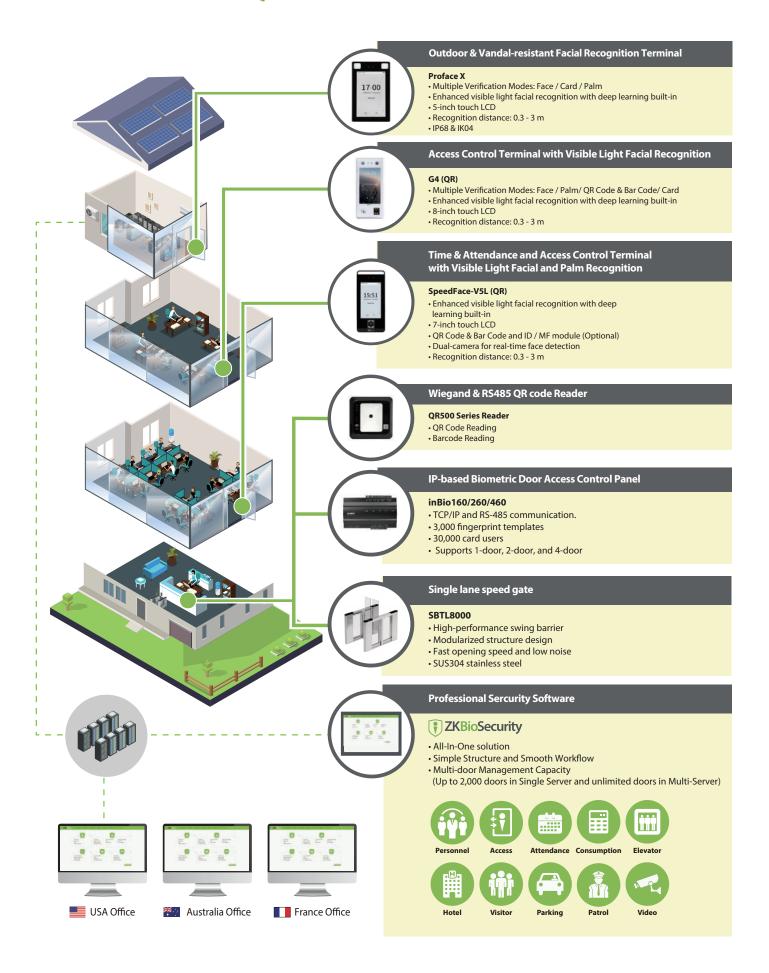


ZKTeco's newly released QR Code & Barcode Access Control Management Solution enables easy yet efficient and precise access. With QR codes and barcodes delivered to mobile phones for scanning, no more physical cards and keys are needed anymore, and access control management is much more simplified yet secured. With multiple advantages in terms of quickness, preciseness, safety, scalability, management efficiency and cost-effectiveness, the solution is ideal for various applications including office, hotel and other service premises etc.





Scramble QR Code & Barcode Access Control Solution





What Scramble QR Code & Barcode Solution is

ZKTeco combines QR Code and Barcode with its access control management system which is optimal for various industries including office building, hotel and other service centres etc.

How Scramble QR Code works with Visitor Management (Available Soon)

Up completion of visitor registration, each member or visitor will get a hyperlink from the service provider, which directs to a dynamic QR code or barcode to different gates and doors. With the QR codes, visitors are allowed to enter the specifically authorized areas.

Conventional physical keys are no longer needed and replaced by QR codes. Visitor can therefore scan QR codes on readers be granted access to the designated areas.





Able to read barcodes from smartphones, for more efficient and effective workflow.



Procedure



Registration with the visitors' personal information.



URL received upon entry of data to the system.



Visitors click on the links to obtain dynamic QR codes or barcodes.

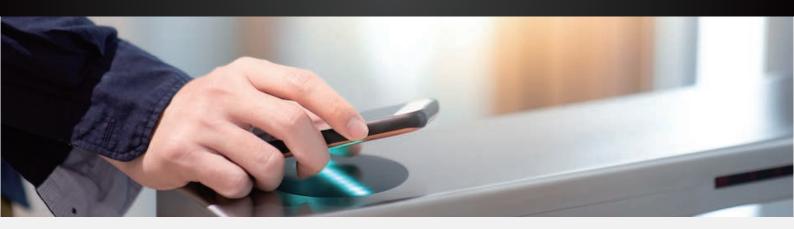






Within 30 seconds, registered visitors will be granted access with the same QR Code. Apart from building entrance, entrance control, car-park gates and elevators also support QR code access function.





Scramble QR Code for Better Security

In order to prevent unregistered people from gaining access by copying QR codes or barcodes without permission, the images of QR codes and barcodes in the URL can be set to dynamic (scramble), which means that the QR code images will be automatically changed in every 10 - 30 (adjustable). Administrators no longer need to generate new set of QR codes to update visitors' entry content anymore.

Control Access Online and Offline

System is able to operate in both online and offline modes, as it is capable of storing access logs which allow registered visitors to obtain access even the access control accidentally goes offline.

In offline mode, the device will save the scanned QR codes locally then automatically upload the data to the server until when the network is restored or go online.



ZKTeco Visitor Management Check-in Methods

On-site Check-in

Visitors may instantly check in present their identity documents upon their arrivals. After successful registration, they will be authorized in the visitor list in the system, and QR codes or barcodes will be ready.



Pre-arrival Check-in

Admin can assist their visitors to regist before they arrive, after the visitor grant the QR code, they are able to have a direct access and check-in without going to the reception. Upon successful personal information entry and identity verification, a URL referring to a dynamic QR Code pass will be sent for access of designated access points and elevators.













QR Code Safe Entry Solution for Employees

Mobile QR Code Check-in enables both staffs and visitors to complete touchless check-in process, by utilizing their own mobile devices to scan QR codes for access of secured areas.

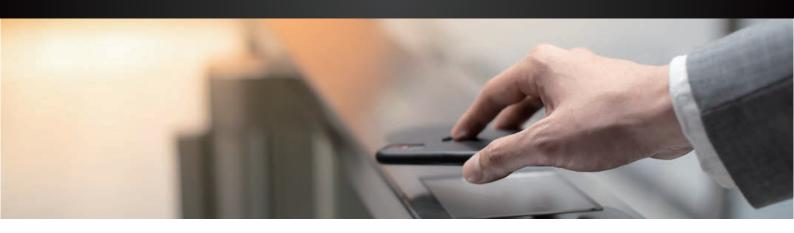


Employee Self-Login

Employee Self-Log-in is a cutting-edge function for employee access to perform job-related functions. With ZKBioSecurity mobile app, employee can self-login to the mobile app., and obtain dynamic (scramble) QR codes to enter to specifically authorized areas.

Besides, with ZKBioSecurity, employees can also update personal information and request self-report inquiries via the via app.





Works with All-in-One software - ZKBioSecurity

ZKBioSecurity is the ultimate "All-in-One" web based security platform developed by ZKTeco. It contains multiple integrated modules: access control, elevator control (online/ offline), visitor management, guard patrol, hotel module, T&A, consumption, parking and video linkage. With an optimized system architecture designed for high level biometric identification and a modern user-friendly GUI, ZKBioSecurity provides the most advanced solution for a whole new user experience.















Personnel

Access

Attendance

Consumption

Elevator











Hotel

Visitor

Parking

Guard Patrol Video Linkage





Powered by AES 256 Encryption

ZKTeco's QR Code Security solution is powered by AES 256 Encryption which is selected as the U.S. government security standard; a strong and robust encryption standard that is commercially available today.

With a key length of 256 bits, it supports the largest bit size and is practically unbreakable by brute force based on current computing power.





Read barcodes

Able to read 1D/2D barcodes from smartphones, tablets & paper for more efficient and effective workflow.

1D barcodes





UPC-A, UPC-E, UPC-E1, EAN-8, EAN-13, EAN-14, EAN-128, UCC-8, ISBN/ISSN, CODE11, CODE32, CODE39, CODE39 FULL ASCII, CODE93, CODE128, ITF, Code 2 of 5 Industrial, Matrix 2 of 5 Code, UK/ Plessey, GS1

2D barcodes



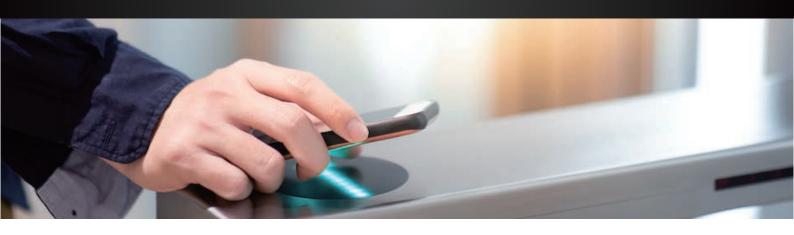






QR CODE, PDF417, DATA MATRIX, MICROPDF417, AZTEC





Advantages

Quickness, Accuracy Cost and Effectiveness



It takes less than 0.2 second for accurate verification and authorised users may simply use their phones to get access to all secured areas.

Security



QR Code will be automatically changed in every 30 seconds, preventing non-registered people to send or share codes to cause security loopholes.

Flow Control



It enables control of a large passenger flow in workplace, unregistered personnel can be restricted to certain areas.

Scalability



It supports multi-access control devices including access control terminals, elevator control, entrance control and car park gates etc.

Smart Software Control



It supports ZKTeco's ZKBioSecurity all-in-one software, several types of visitor reports can be generated.

Protected by AES-256 standard encryption

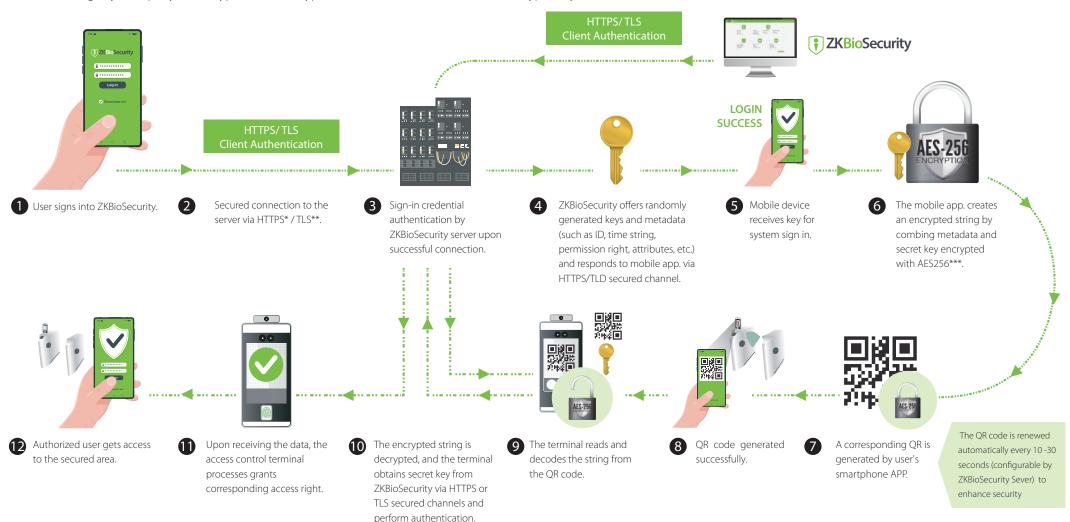


AES-256, which has a key length of 256 bits, supports the largest bit size and is the strongest encryption standard.



ZKTeco Dynamic QR Code End-to-End Encryption

ZKTeco End-to-End Encryption is a technique which ensures privacy of users' communication. When signing in to the system, users' data are encrypted by ZKBioSecurity server without authorizing any third party for decryption. The encrypted data will then be retrieved and decrypted by ZKTeco access control terminal for access authentication.



*Hypertext Transfer Protocol Secure (HTTPS) is an extension of the Hypertext Transfer Protocol (HTTP). It is used for secure communication over a computer network, and is widely used on the Internet.

^{**}Transport Layer Security (TLS), the successor of the now deprecated Secure Sockets Layer (SSL), is a cryptographic protocol designed to provide communications security over a computer network.

^{***} AES Encryption stands for Advanced Encryption Standard and follows a symmetric encryption algorithm the same key is used to encrypt and decrypt the data. AES supports block lengths of 128, 192 and 256 bits.





