

Scramble QR Code & Barcode Access Control Solution



ZKTeco's newly released QR Code & Barcode Access Control Management Solution enables easy, efficient and precise access control. With QR codes and barcodes delivered to mobile phones for scanning, there is no longer a need for physical cards and keys. The QR code and barcode access control management solution simplifies access control management while also increasing security. 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

Outdoor & Vandal-resistant Facial Recognition Terminal

G5 (QR)

- Multiple Verification Modes: Face / Fingerprint/ Multi-tech card / password.
- Andriod LCDP for the 3rd-party application integration
- 8 inch TFT color touch screen with narrow bezel design
- Support Wiegand, RS-485, TCP/IP, Wi-Fi, Android LCDP, PUSH SDK

Access Control Terminal with Visible Light Facial Recognition

G4 Pro(QR)

- Scanning of T&A/A&C dynamic QR codes on the ZKBio CVSecurity Mobile App
- Dual-frequency (125kHz and 13.56MHz) card module (standard)
- Anti-spoofing algorithm against print attack (laser, color, and B/W photos) and video attack
- Compatible with 4G network optional.

Time & Attendance and Access Control Terminal with Visible Light Facial and Palm Recognition

SpeedFace-V5L (QR)

- Enhanced visible light facial recognition with deep learning built-in
- 7-inch touch LCD
- QR Code & Bar Code and ID / MF module (Optional)
- Dual-camera for real-time face detection
- Recognition distance: 0.3 - 3 m

Wiegand & RS485 QR code Reader

QR500 Series Reader

- QR Code Reading
- Barcode Reading

IP-based Biometric Door Access Control Panel

inBio Pro Series

- Support HTTP/HTTPS communication, support to be install in network;
- 20,000 fingerprint templates, 60,000 badge users
- Store up to 100,000 events and transactions
- Supports 1-door, 2-door, and 4-door

Smart Security Gate

Mars Pro F1200 Series

- Up to 30 people per minute
- Modularized structure design
- LED Indicator
- Switchable Reader Panel

Professional Security Software

ZKBio CVSecurity

- All-In-One solution
- Simple Structure and Smooth Workflow
- Multi-door Management Capacity (Up to 2,000 doors in single server and unlimited doors in multi-server)



Access Control



Time & Attendance



Elevator Control



Visitor Management



Parking Management



Guard Patrol



Video Management



Consumption



Facekiosk



Intelligent Analytics



Temperature



Entrance Control



Locker Management



Intrusion Alarm



USA Office



Australia Office



France Office

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)

Upon 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 can enter the specifically authorized areas.

QR codes replace the physical keys. Visitors can, therefore, scan the QR codes on a reader, and the system grants access to the visitors for designated areas.



Can read the barcodes on a smartphone or tablet screen.
Enhance workflow efficiency and effectiveness.



Procedure

1



Registration with the visitors' personal information.

2



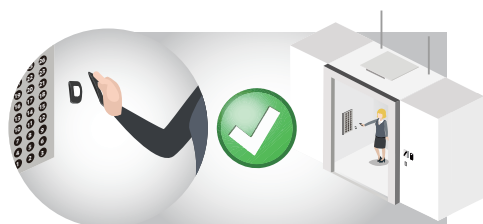
A URL is generated and sent out when users enter the data into the system.

3



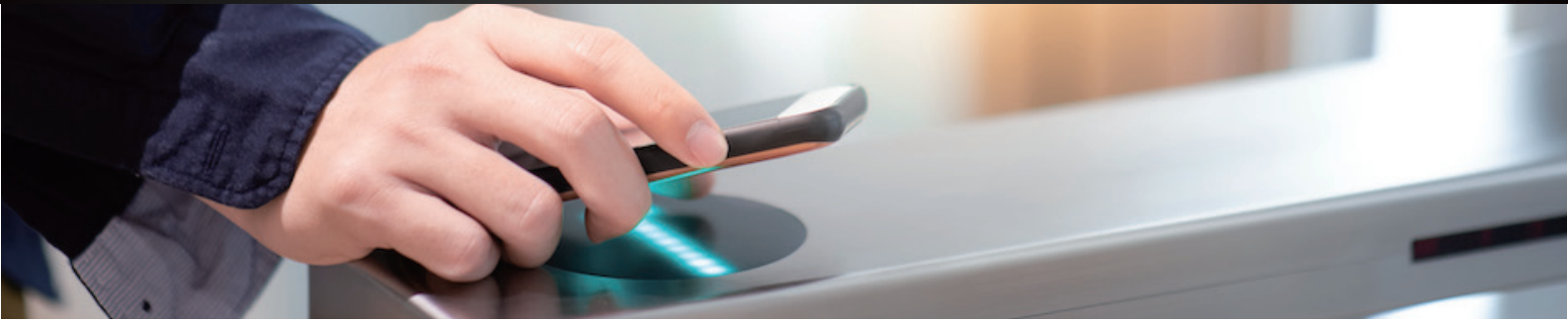
Visitors click on the links to obtain dynamic QR codes or barcodes.

4



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 seconds (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 when the network is restored.



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.

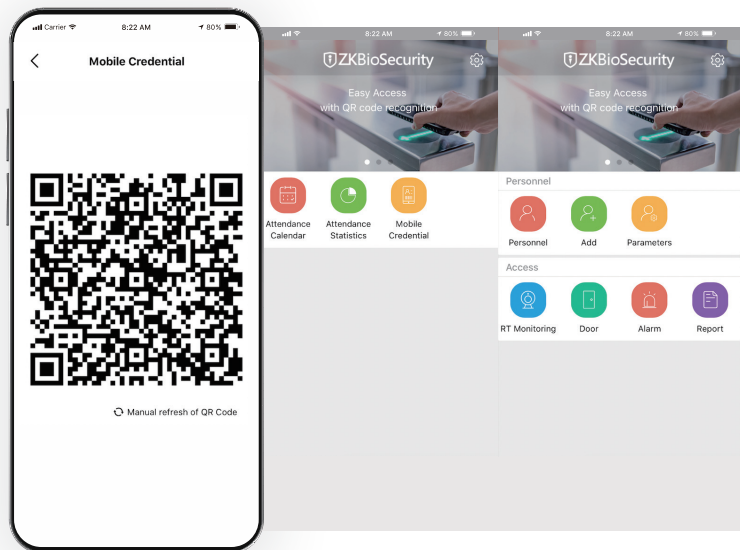




QR Code Safe Entry Solution for Employees

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

ZKBio CVSecurity



Employee Self-Login

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

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

ZKBio CVSecurity



Works with All-in-One software - ZKBio CVSecurity

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

The platform adopts micro-service development framework with robust system performance characteristics, such as high availability, scalable modules, fully secure communication, and solid third-party integration scalability. By taking full advantage of our extensive experience in the access control industry, ZKTeco integrates video surveillance and smart analysis to study real-time video content and collect meta data to create an effective early warning system and issue a prompt response. So that ZKBio CVSecurity offers a precise verification after the incident, establishing a practical security ecosystem. The system ensures safety protection for people, vehicles and properties.



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

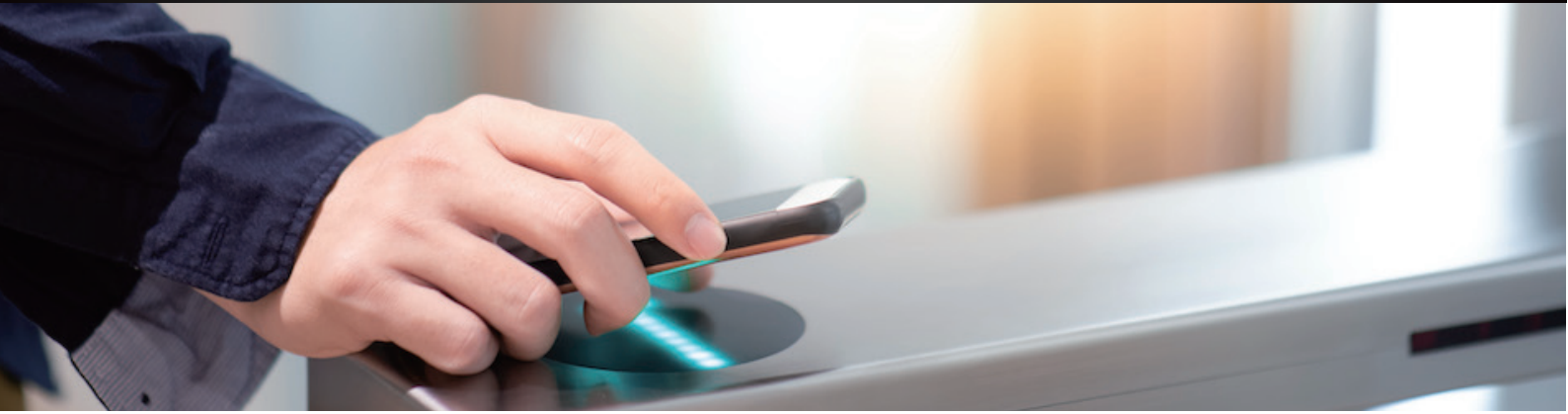


UPC-A, UPC-E, UPC-E1, EAN-8, EAN-13, EAN-14, EAN-128, UCC-8, ISBN/ISSN, CODE11, CODE32, CODE39, CODE39 FULL ASCII, CODE93, CODE128, ITF, Code 2 of 5 Industrial, Matrix 2 of 5 Code, UK/ Plessey, GS1

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.

Scalability



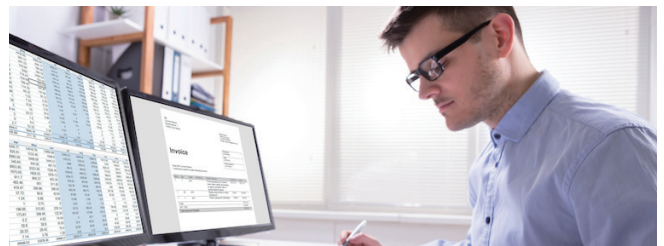
It supports multi-access control devices including access control terminals, elevator control, entrance control and car park gates etc.

Security



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

Smart Software Control



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

Flow Control



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

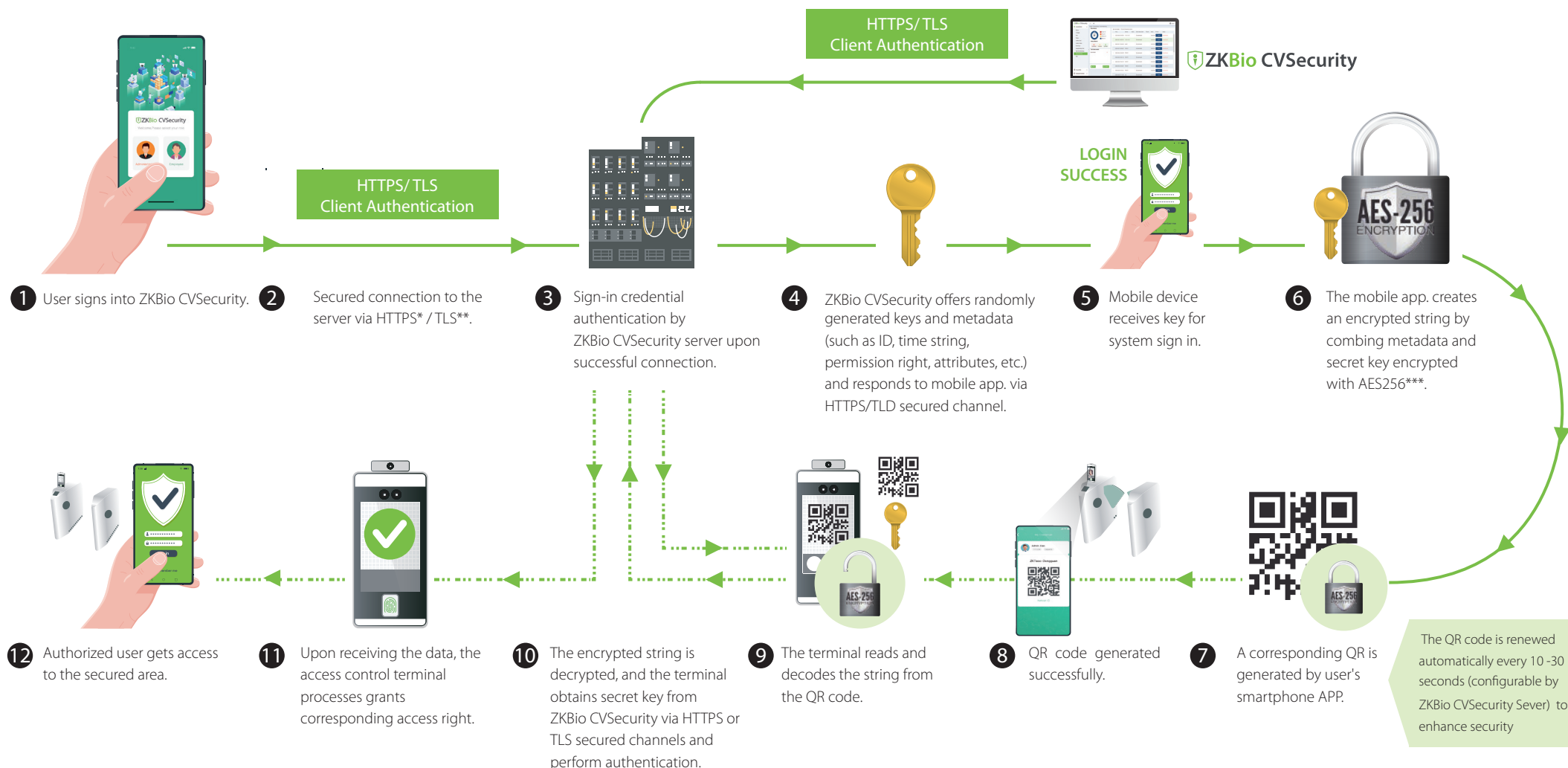
Protected by AES-256 standard encryption



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 ZKBio CVSecurity 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.

