

ZKBio CVSecurity

SmartLock

Keyless Entry with Comprehensive Protection



Smart
Lock



Access
Control



Video
Intercom



Visitor
Management



Elevator
Control

Introduction

ZKBio CVSecurity SmartLock Version is a tailor-made solution developed by ZKTeco, specifically designed for apartment buildings requiring integrated smart lock functionality and access control functions. The platform is further enhanced by integration with the Zexus mobile app which enables two-way voice communication via app and video intercom devices.

More importantly, ZKBio CVSecurity SmartLock Version is exclusively engineered to integrate with the ZK wireless lock such as SL03-T420H. Smart apartment door lock via Zigbee protocol for remote door unlocking and door status management. This system minimizes installation complexity while maximizing security and convenience for multi-unit deployments.

Key Capabilities

- TCP/IP network protocol for centralized system connectivity
- Zigbee protocol for seamless smart lock integration
- Support H5 cloud link for remote door unlocking

Features

Smart Lock

Seamless Access: Supports one-touch unlocking via H5 cloud link for residents.

Temporary Passwords: Allows temporary passwords with validity periods to be set through the software, ideal for housekeeping services or temporary visits by friends and family.

Abnormal Alerts: Real-time notifications for low battery, unlocked doors, or other abnormalities, sent to administrators or residents.

Remote Management: Property managers can manage resident permissions via the backend system, such as automatically disabling access when leases expire.

Access Control

Hierarchical Permissions: Differentiates access levels for property owners, security personnel, and cleaning staff (e.g., cleaning staff can only access on weekdays from 9 AM to 6 PM).

Emergency Integration: Automatically unlocks all access control points during emergencies such as fires.

QR Code Access: Supports QR code-based access via the H5 mobile intelligent recognition page.

Elevator Control

Hierarchical Permissions: Differentiates access levels for property owners and tenants, providing direct access only to their designated residential floors.

DCS Integration: Integrated with 3-rd party DCS systems, such as Kone and Mitsubishi Electric DCS systems for automatic coordination, improving operational efficiency.

QR Code Elevator Access: Enables access via QR codes generated on the H5 Cloud Link.

Video Intercom (SIP Ver 2.0 protocol) (Compatible with Zexus App)

Visitor Identity Verification: Enhances security for apartments and residential areas by supporting identity verification of authorized visitors through video intercom.

Two-Way Communication: Enables calls and two-way voice communication via mobile apps, video intercom devices, and the property management backend client.

Real-Time Video and Door Control: When a visitor rings the doorbell, residents can view real-time videos, engage in conversation, and unlock the door with one touch.

Visitor Management

Custom Permissions: Allows residents to set visitor permissions, preventing unauthorized access to other residents' areas.

Reservation System: Visitors can submit their information in advance, and the residents can approve and assign access permissions, including specific floors and areas.

Multi-Channel Notifications: The system provides timely reminders at every stage, including reservation, review, and access via email, WhatsApp, and SMS.

Software Specification

Operating System		3rd-Party Integration	
Server-Side	Windows7/8/10/11, Windows Server 2008/2012/2016/2019/2022	Notification / Messages	Line / WhatsApp / Amazon SNS / SMS
		GIS Map	Google Map / Baidu Map / SuperMap
		Microsoft Active Directory	No Version restriction
		Intrusion Alarm Integration	Bosch/RISCO
Database	PostgreSQL, Oracle11g/12c/18c/ 19c /21c, SQL Server 2008/2012/2014/2016/2017/2019/2022	API	Restful API Supports: Person Interface of Attendance Area RESTful API Person Interface RESTful API Person Biometric Template Interface RESTful API Card Interface RESTful API Department Interface RESTful API Area Interface RESTful API Reader Interface RESTful API Media Interface RESTful API Door Interface RESTful API Floor Interface RESTful API Access Control Interface RESTful API Access Control Device Interface RESTful API Access Level RESTful API Access Control Transaction Interface RESTful API Attendance Transaction Interface RESTful API Attendance Device Interface RESTful API Elevator Control Level Interface RESTful API Elevator Device Interface RESTful API Elevator Transaction Interface RESTful API Vehicle Management Authorization Interface RESTful API Vehicle Management Transaction Interface RESTful API Visitor Reservation Interface RESTful API Visitor Level Interface RESTful API Visitor Registration Check Out Interface RESTful API Temperature Transactions Interface RESTful API FaceKiosk Device Interface RESTful API FaceKiosk Area Interface RESTful API
Suggested Browser for Client-Side	IE 11 or later, Chrome 33 or later, Safari 6.1.3 or later Edge		
Database Platform			
Maximum Number of ClientsAllowed to Access	Unlimited (depending on the performance of the server & network)		
Maximum Supported Admin Users			
Maximum Supported Personnel	300,000		
Maximum RFID Cards	300,000		
Maximum Passwords	300,000		
Maximum Fingerprints	300,000		
Maximum Faces	300,000		
Maximum Access Controlled Doors	5,000		
Maximum Access Control Level	Unlimited (depending on the performance of the server & network)		
Maximum Attendance Points	2,000		
Maximum Visitors (Monthly)	100,000		
Maximum Surveillance Cameras	1024		
Maximum Intelligent Video Servers	50	Elevator Destination Control System Integration	KONE, MITSUBISHI ELECTRIC
Maximum Number of Smart Lock Access	2,000	Cybersecurity	
		Data Protection	256-bit AES encryption

Server Configuration

Descriptions	CPU	RAM	ROM	GPU
Minimum Server Configurations	Core i5-2500 quad-core with a clock speed of 3.3GHz or higher	8GB	100GB	/
Recommended Server	Core i7-2600 quad-core with a clock speed of 3.4GHz or higher	16GB	200GB	NVIDIA GeForce GTX 750 or higher(Only applicable to devices with a preview video function.)

System Topology

