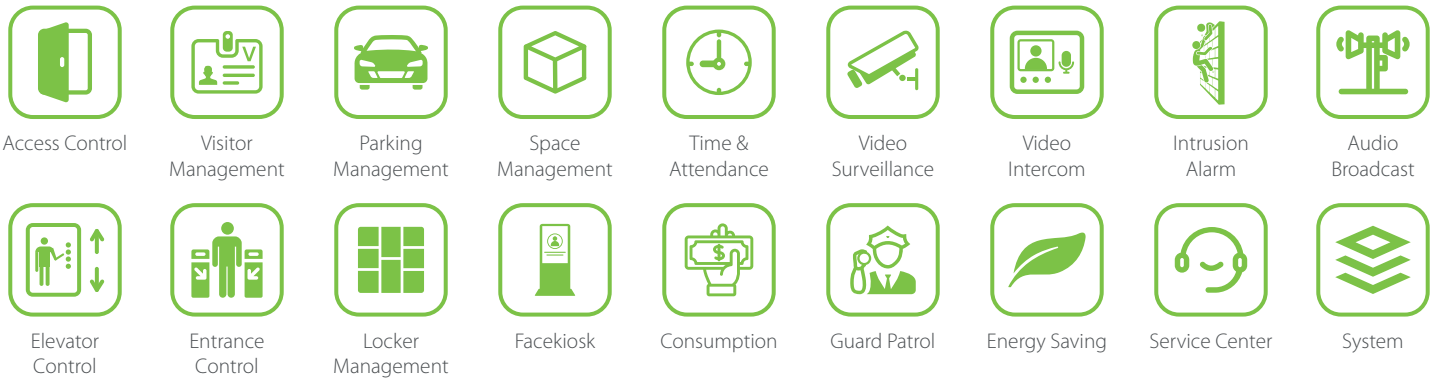


ZKBio CVSecurity

Version 6.7.0

All-in-One Biometric Security Advanced Solutions









ZKBio CVSecurity delivers a web-based security platform which integrates biometric authentication and advanced computer vision technology seamlessly. ZKBio CVSecurity enables organizations of all sizes to transform their physical security infrastructure while streamlining daily operations.



Technical Excellence

- A Microservice architecture for robust performance and scalability.
- Enterprise-grade data security (ISO/IEC 27001:2013, 27701:2019)
- Achieved ISO 20000 certification for the international standard for IT Service Management.
- Achieved ISO 9001:2015 for the quality-assured management system.

Key Features

 <p>Simple Deployment Users can install and deploy it by themselves.</p>	 <p>Distributed Deployment Distributed deployment is an optional configuration. It achieves load balancing through network collaboration and is flexibly suitable for large-scale projects.</p>
 <p>Multi-Module Linkage Seven modules (access control, entrance control, video surveillance, space/energy/system management, intrusion alarm) support automated cross-module actions. Configure triggers per module to activate emergency responses, broadcasts, or notifications (Email/SMS/WhatsApp).</p>	 <p>Data Integration & Management Supports multiple integration methods-including API-based data pulling, real-time push notifications, and direct database integration-for seamless connectivity with existing systems.</p>
 <p>Customizable Data Dashboards Assign tailored dashboards to different roles and users based on their specific needs and responsibilities.</p>	 <p>AI Assistant An intelligent chatbot handles inquiries and assists with common tasks, with configurable AI agents tailored to specific security scenarios and workflows.</p>
 <p>Scenario Center Configure and customize security scenarios to match your operational requirements and workflows.</p>	 <p>Alarm Subscription Subscribe to relevant notifications based on your specific monitoring needs.</p>

Features of Main Modules

Module	Features
Access Control	<ul style="list-style-type: none"> • Access Level: Precisely manage the entry and exit of personnel to enhance campus security. • Access Records: Detailed logging of each visit's time, location, and visitor information for easy reporting and analysis. • Video Linkage: Integrates with video surveillance systems for real-time monitoring and event recording. • Emergency Evacuation: Quick evacuation guidance in emergencies to improve rescue efficiency. • Advanced Features: Support for global anti-tailgating, interlocking, and linkage to meet complex security management needs.
Time & Attendance	<ul style="list-style-type: none"> • Flexible Attendance Rules: Different scheduling rules can be set for different departments and employee categories. • Accurate Calculation: Precisely track regular work hours, overtime, tardiness, and absences to ensure accurate payroll processing. • Comprehensive Tracking: Manage make-up cards, leave requests, approval workflows, and monitor sick leaves and personal leaves. • Regulated Overtime Management: Systemize overtime and compensatory time arrangements to ensure compliance and minimize disputes. • Seamless Integration: Offer extensive APIs for seamless integration with payroll systems. • Employee Self-Service: Enable employees to view personal attendance records and apply for leaves independently. • Insightful Reporting: Provide detailed attendance reports to help management identify trends and potential issues.
Visitor Management	<ul style="list-style-type: none"> • Suitable for All Scenarios: We offer a variety of visitor check-in and check-out solutions to meet the needs of different occasions. • Efficient Reception: Utilizing OCR and ID card readers for swift identity verification and information scanning, with automatic receipt printing post-registration for a seamless process. • Self-Service Kiosks: Integrating advanced facial authentication, we enable self-check-in for visitors, instantly issuing receipts, enhancing experience, and reducing front desk workload. • Online Scheduling and Access: Our app allows you to invite and pre-register visitors. They gain automatic access during the scheduled time, streamlining the visit process. • Watchlist Management: Our system intelligently identifies and flags visitors of various categories, alerting staff with VIP notifications for enhanced etiquette. • Comprehensive Notification Service: The system provides timely alerts for all stages, including bookings, approvals, check-ins, check-outs, no-shows, and overtime check-outs, through various channels like Email, WhatsApp, and SMS.
Parking Management	<ul style="list-style-type: none"> • Automated Management: Swift response to vehicle entry and exit with automated barrier systems for improved traffic efficiency. • Diverse Payment Options: Supports various payment methods for different user categories, including temporary, regular, special, and monthly renters, catering to diverse management needs. • Stringent Fee Collection: Computerized billing and charging record every transaction, preventing revenue leakage and ensuring parking lot profitability. • Centralized Control: Real-time transmission of parking equipment status and space usage to the control center via the network, enhancing supervision. • High Plate Recognition Rate: High-definition cameras boast a plate authentication rate above 99%, adaptable to complex environments.
Elevator Control	<ul style="list-style-type: none"> • Enhanced Security: Fine-grained access control ensures only authorized users access designated floors, effectively preventing unauthorized entry and enhancing building security. • Floor Control Capability: Our elevator access controllers are powerful, capable of managing up to 128 floors, meeting the vertical transportation needs of high-rise buildings. • Efficient Dispatch System: Integrates seamlessly with 3rd party elevator control systems, e.g. DCS, for coordinated access management, like MITSUBISHI ELECTRIC and KONE, enabling intelligent destination dispatch to reduce wait times and improve transportation efficiency. • Personalized Services: Custom services cater to passenger habits and needs, offering exclusive elevator services such as VIP direct floors and management-specific elevators for special groups.

Module	Features
Entrance Control	<ul style="list-style-type: none"> • Enhanced Security: Identity verification through facial, fingerprint, palm, card, and other authentication methods ensures that only authorized personnel can access specific areas. • Crowd Management: Effectively control and monitor the flow of people to prevent overcrowding, enhancing order and security in the area. • Data Recording: The system records detailed information of each passage, including time and identity of personnel, facilitating post-incident audits and data analysis. • Emergency Response: In emergency situations, such as fires or security incidents, the access gates can be quickly opened to ensure rapid evacuation of personnel.
Video Intercom	<ul style="list-style-type: none"> • Enhanced Security: Video identity verification ensures that only authorized visitors enter, enhancing the security of residential and workplace environments. • Two-Way Communication: Intercom units, indoor monitors, phones, mobile apps, and PC clients can call each other, enabling two-way communication capabilities. • Simplified Configuration: The software automatically assigns SIP accounts, quickly synchronizing them with devices and apps, eliminating the hassle of manual configuration. • Access Control Integration: In emergency situations, the system automatically dials designated apps to ensure that no critical alerts are missed.
Smart Video Surveillance	<ul style="list-style-type: none"> • Expanded Capacity: Capable of handling up to 1024 video channels, with support for 64-channel prereview and 16-channel simultaneous real-time playback. • Essential Video Management: Offers fundamental functionalities including real-time preview, PTZ (Pan-Tilt-Zoom) control, video playback, and video decoding. • Intelligent Alert Management: Allows for viewing and addressing intelligent camera alerts such as intrusion and rapid movement directly from the software's alarm center. • Enhanced Surveillance: Video patrol features bolster security personnel's situational awareness and patrol effectiveness, with the software maintaining comprehensive patrol records. • Watermark Protection: Incorporates a watermark function to safeguard user photos and data, preventing unauthorized copying and reuse.
Guard Patrol	<ul style="list-style-type: none"> • Standardized Management: Streamline patrol processes to ensure tasks are carried out according to established plans and frequencies. • Real-time Monitoring: Continuously monitor the status of patrol personnel to promptly detect and respond to any anomalies. • Flexible Scheduling: Adjust patrol routes and schedules as needed to accommodate varying security requirements. • Cost Reduction: No need to purchase additional patrol equipment; access control devices also serve as patrol points, and patrols can be completed using facial authentication, fingerprint scanning, or card swiping.
Consumption	<ul style="list-style-type: none"> • Fast Checkout: Supports facial authentication or card payments, which is convenient and fast, reducing waiting time in lines. • Account Management: Facilitates personal account management, including recharges, balance inquiries, and transaction history reviews. • Subsidy Distribution: Simplifies the process of issuing and managing meal subsidies for employees or students. • Data Tracking: Provides comprehensive consumption statistics reports, assisting cafeteria managers in analyzing consumption patterns and trends.
Intrusion Alarm	<ul style="list-style-type: none"> • Seamless Integration: Harmoniously integrates with Alarm Control Panels from leading brands like BOSCH and RISCO, ZKTeco enabling comprehensive monitoring and control over various partitions and points within the security system. • Enhanced Visualization: Offers an intuitive defense zone display on the map, providing a clear visual overview of security zones for enhanced situational awareness and efficient response to any incidents.

Module	Features
Locker Management	<ul style="list-style-type: none"> • Automated Management: Automatically assigns and releases lockers to designated personnel. • Real-time Monitoring: The system can monitor the usage status of lockers in real time to ensure the rational allocation of resources. • Data Recording: The system automatically records data on the use of lockers, facilitating management and tracking. • Advertising Opportunities: The system interface can display advertisements, providing an additional revenue stream for operators. • Emergency Access: In emergency situations, management personnel can quickly access lockers.
Space Management NEW	<ul style="list-style-type: none"> • Mobile Access: Book meeting rooms from any location via smartphones or tablets. • Flexibility: Book and manage meetings flexibly based on personal schedules and room availability. • Conflict Reduction: The system can automatically detect and prevent scheduling conflicts, ensuring that only one meeting is arranged for the same time slot. • Automated Notifications: After a successful reservation, the system automatically sends notifications to meeting participants, reminding them of the meeting time and location. • Energy Saving: Provides intelligent linkage with lighting and air-conditioning, powering equipment only in active use, reducing standby power consumption. (Linkage with energy saving module). • Security: Access control ensures that only authorized personnel can book or access specific meeting rooms. • Online Meeting: Integration Zoom to quickly create online meetings. • Microsoft 365 Integration: Create meetings in Outlook or Teams and sync schedules to devices.
Energy Saving NEW	<ul style="list-style-type: none"> • Improve Energy Utilization Efficiency: Occupancy-based automation ensures lights and AC turn off when rooms are vacant, maximizing energy savings. • Enhance Environmental Comfort: Through precise environmental control, the system maintains consistent indoor temperature, humidity, and oxygen levels, providing a comfortable and healthy space environment.
Audio Broadcast NEW	<ul style="list-style-type: none"> • Immediate Broadcast Task Assignment: Enables scenario-based broadcast distribution with intelligent, group-targeted push notifications to streamline task deployment. • Cross-module Intelligent Broadcast Linkage: Triggers alerts or audio warnings when access-control or video analytics flag anomalies, preventing threats and dangers. • GIS Visualized Broadcast Status Monitoring: Displays real-time broadcast terminal status on the GIS interface, enabling quick location of anomalies and immediate strategy adjustments.

Software Specifications

Operating System		3rd-Party Integration	
Server-Side	Windows7/8/10/11, Windows Server 2008/2012/2016/2019/2022 /2025	Notification / Messages	Line / WhatsApp / Amazon SNS / SMS
		GIS Map	Google Map / Baidu Map / SuperMap
		Microsoft Integration	Active Directory / Microsoft 365(Outlook&Teams)
		Intrusion Alarm Integration	Bosch / RISCO
Database	PostgreSQL, Oracle11g/12c/18c/ 19c /21c, SQL Server 2008/2012/2 014/2016/2017/2019/2022	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		
Certifications	ISO/IEC 27001:2013, ISO/IEC 27701:2019, ISO9001, ISO20000.		
Database Platform			
Maximum Number of Clients Allowed 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 Controlled Outputs Maximum Inputs	Unlimited (depending on the device's configuration)	Cybersecurity	
		Data Protection	256-bit AES encryption

System Requirement

Operation System	Microsoft® Windows 7 Microsoft® Windows 8 Microsoft® Windows 10 Microsoft® Windows 11 Microsoft® Windows Server 2008 Microsoft® Windows Server 2012 Microsoft® Windows Server 2016 Microsoft® Windows Server 2019 Microsoft® Windows Server 2022 Microsoft® Windows Server 2025
Browser Version	Google Chrome® 84 and above Firefox® 84 and above Safari® 11 and above Microsoft® Edge 89 and above Internet Explorer® 11 and above
Database	PostgreSQL, Oracle11g/12c/18c/19c/21c, SQL Server
OS for Mobile Client	iOS 15.0 and above Android 10.0 and above

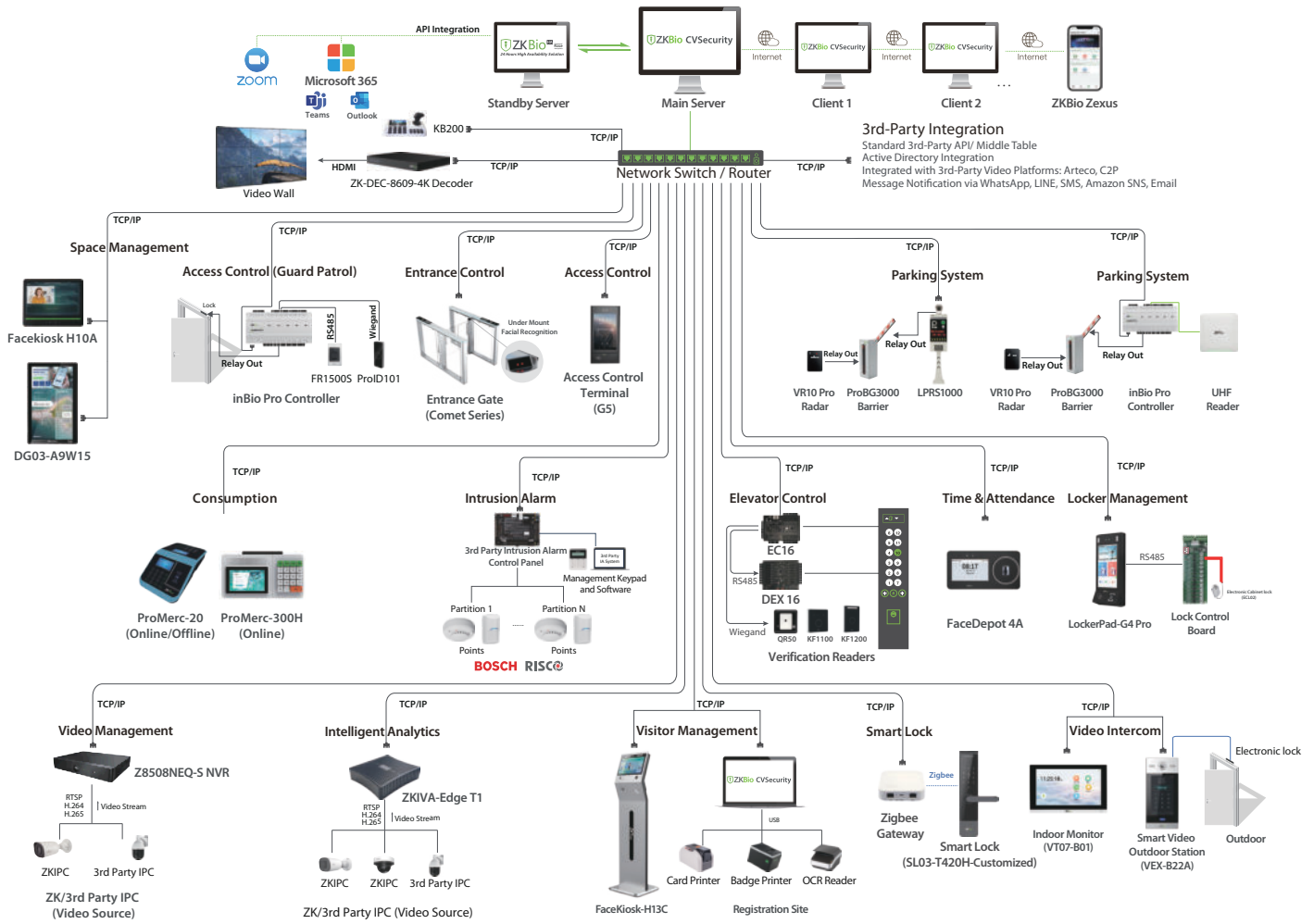
* For high stability and good performance, the following system requirements must be met.

Server Configuration

Application Scenario	Device Protocol	Device Quantity	Deployment Method Description	Recommended Server Configuration				
				Server Type	Memory	CPU	Hard Drive Capacity	GPU
Small-scale Project	Push / Pull / Best	Push Device: 50 pcs Pull Device: 20 pcs Video Channel: 64 Cameras	If MS SQL or Oracle database is used, an additional separate database server needs to be deployed.	ZKBio CVSecurity Server	8GB	Core i5 quad-core with a clock speed of 2.8 GHz or higher	100GB	/
				ZKBio CVSecurity Client (Supports simultaneous preview of 64 videos)	16GB	Core i7 quad-core with a clock speed of 3.0 GHz or higher	100GB	NVIDIA GTX750 (Only preview video devices are needed)
				Database Server (Only required when using MS SQL and Oracle)	8GB	Core i5 quad-core with a clock speed of 2.8 GHz or higher	100GB	/
Media-scale project	Push / Pull / Best	Push Device: 50~200 pcs Pull Device: 50 pcs Video Channel: 128 Cameras	1. When the number of devices exceeds 100, it is not recommended to use MS SQL 2. If using MS SQL or Oracle databases, an additional separate database server needs to be deployed.	ZKBio CVSecurity Server	16GB	Core i5 hexa-core with a clock speed of 3.0 GHz or higher	200GB (SSD)	/
				ZKBio CVSecurity V6600 Client (Supports simultaneous preview of 64 videos)	16GB	Core i7 quad-core with a clock speed of 3.0 GHz or higher	100GB	NVIDIA GTX750 (Only preview video devices are needed)
				Database Server (only required when using MS SQL and Oracle)	8GB	Core i5 hexa-core with a clock speed of 3.0 GHz or higher	200GB (SSD)	/
Medium to large-scale project	Push / Pull / Best	Push Device: 200~600 pcs Pull Device: 50 pcs Video Channel: 256	1. MS SQL is not recommended. 2. If using an Oracle database, an additional separate database server is required.	ZKBio CVSecurity Server	16GB	Core i7 octa-core with a clock speed of 3.2 GHz or higher	500GB (SSD)	/
				ZKBio CVSecurity Client (Supports simultaneous preview of 64 videos)	16GB	Core i7 quad-core with a clock speed of 3.0 GHz or higher	100GB	NVIDIA GTX750 (Only preview video devices are needed)
				Database Server (Only required when using Oracle)	16GB	Core i5 hexa-core with a clock speed of 3.2 GHz or higher	500GB (SSD)	/

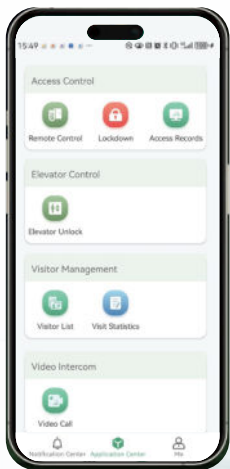
* To ensure optimal system performance, should you plan to connect more than 600 devices, we recommend that you contact our Technical Support Center. Our professional team will provide you with customized server configuration recommendations to ensure smooth and efficient operation of your devices.

System Topology



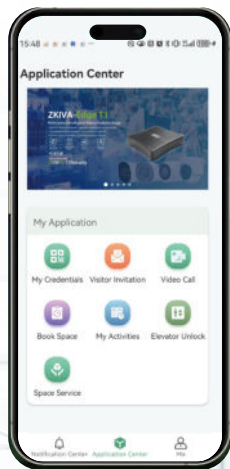
Mobile APP-ZKBio Zexus

Admin Page



Keep an eye on everything, guard every moment, 24/7 security defense.

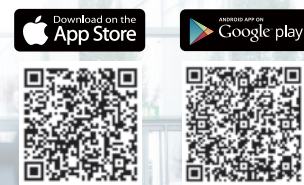
Personnel Page



You can reserve the space and manage visitors on the mobile app.

- Video Call
- Visitor Invitation
- My Activities
- Call Elevator

- My Credentials
- Visitor Approval
- Book Space
- Space Service
- Mobile Attendance



iOS Android

