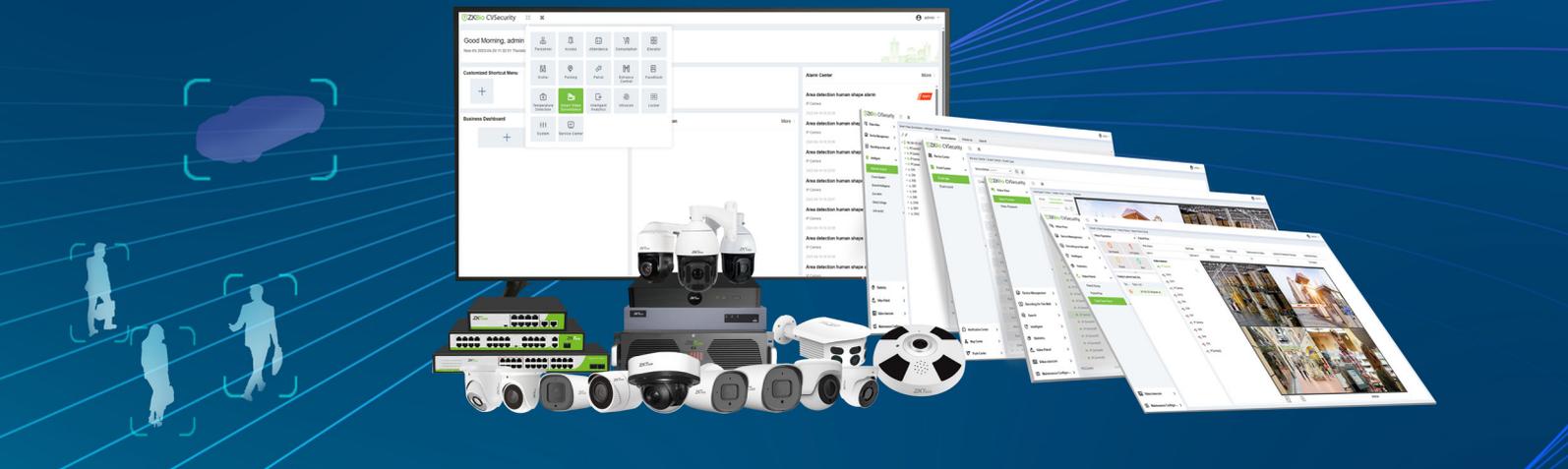


ZKBio CVSecurity | Smart Video Surveillance Module

All-in-One Biometric Security Advanced Solutions



Product Overview

ZKBio CVSecurity provides a comprehensive web-based security platform that adopts hybrid biometric and computer vision technology.

The ZKBio CVSecurity platform includes the "Smart Video Surveillance Module", which provides an efficient and comprehensive professional video surveillance management service. Users can manage all video devices such as BioSense Series NVR/ IPC/ PTZ, conventional NVR/ IPC, Decoder, and Video Wall. Also, users can access these essential functions: real-time preview, video playback, decoding for video wall, GIS Map real-time monitor, log management, alarm record management.

The Smart Video Surveillance Module also conducts all the structured video analytics alarm notifications, such as behavioral and intelligent situation analyses, which are based on human and vehicle targets classification intelligence with multiple video analytic features, for example, target counting, smart motion, line crossing, and area detection. Therefore, we offer tailored solutions to the varying requirements of interlinkage scenarios.

The platform adopts a micro-service development framework with robust system performance characteristics, such as high availability, scalable modules, fully secure communication, and solid third-party integration scalability.

ZKBio CVSecurity also attained ISO certifications for information security management and data protection measures, compliant with ISO/IEC 27001:2013, ISO/IEC 27701:2019 & ISO9001. Furthermore, ZKTeco's after-sales service attained a high standard and reached ISO20000.



Visual Data Panel



Flexible 3rd-Party System Integration



Web Application



Professional Video Management System



Intelligent Video Analytics



Intelligent Video Linkage



LPR Camera for Parking



Multi-point Deployment



Microsoft Active Directory



Personal Trajectory



Intelligent Target Search



Smart Camera Perimeter Protection



People Counting



Smart Camera Tailing Detection



GIS Map

Key Features

- Supports up to 1024 channels connection via NVR.
- Maximum 64 channels prereview and 16 channels playback simultaneously.
- Conventional video management features such as real-time preview, PTZ control, video playback, Alarm, etc.
- Video wall decoding features such as displaying a floating window, setting up alarms on the wall, previewing content on the wall and quick one-click access to content on the wall.
- Smart video analysis is available from NVR for perimeter protection: Target Count, Area Detection, Line Crossing, Smart motion triggered by human & vehicle classification, Object Left/Lost.
- Smart quick retrieve video based on human and vehicle classification alarm types.
- Intelligent video scene to adopt more intelligent applications, such as tailing detection, people counting, structured recognition, etc.
- Graphical & smart alarm center to check and acknowledge all the alarm notifications.
- GIS Map for real-time monitoring, supports Google Maps, Baidu Map, SuperMap.
- Watermark function to protect video and data privacy.
- Supports video patrol by schedule or real-time monitoring.
- Supports video intercom.

Software Specifications

Name	ZKBio CVSecurity - Smart Video Surveillance Module
Operating System	
Server-Side	Windows 7 Pro/Ultimate SP1, Windows 2008 Server R2 (64-bit only), Windows 2012 Server, Windows 2012 Server R2, Windows 2016 Server, Windows 8.1 Pro, Windows 10 Pro/Enterprise or Windows 2019 Server Windows 11
Client-Side	Windows 7 Pro/Ultimate SP1, Windows 8.1 Pro/Enterprise, Windows 10 Pro/Enterprise or Windows 2019 Server Windows 11
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
Cybersecurity	
Data Protection	256-bit AES encryption
Network Protocol	HTTPS, TLS1.2, AES-256
User Management	
Maximum Users Number	Unlimited (depending on the performance of the server & network)
User Level	Administrator, Operator, Other
User Info	User, Role, Client Register, API Authorization, Security Parameters Setting, Assignable Permissions
Video Surveillance Device Management	
Maximum Video Connection via NVR	1024 channels
Video Device Adding Protocol	ZKTeco / ONVIF / Private API & SDK
Device Adding Method	Manual / Auto search / Group management

Video/Audio Compression

Video Compression	H.265+/H.265/H.264
Video Resolution	8MP/5MP/4MP/3MP/1080P/720P/D1/VGA/CIF/QCIF
Audio Compression	G.711a
Two-Way Intercom	Supported

Live View

Maximum Live View Channels	64 channels simultaneously
Screen Size	Full screen/4:3/16:9
Screen Layout	1/ 2/ 3/ 4/ 6/ 8/ 9/ 10/ 12/ 13/ 16/ 25/ 32/ 36/ 64/ self-define split view
PTZ Control	Pan, tilt, zoom, shortcut PTZ, focus, preset, patrol, 3D positioning, speed, cruising
Features	Group display, channel collection, sequence display, snapshot, digital zoom, local recording, default & custom view, two-way audio, video on wall, and live alarm

Playback

Maximum Playback Channels	16 channels simultaneously
Features	One click play, channel collection, search recording by time/type (human & vehicle classification), single /multiple channel playback, video clip cycling playback, video download, snapshot, digital zoom, -16x~16x speed for forward and backward, audio, playback in default/custom view

Video Wall Decoding

Device Support	ZKTeco decoder
Configuration	Video wall template configuration, max. 8*8
Large Screen Control	All quick on wall, sync layout, video preview, screen split (1/4/8/9/16/25), alarm setting, plan collection, multi-screen splicing, floating window, down wall

Alarm

Conventional Alarm	Alarm In / Motion Detection / Video Tampering / Video Loss
Intelligent Alarm	Behavior analysis (Target Count / Area Detection / Line Crossing / Smart Motion triggered by human & vehicle classification) / Object Left/Lost, crowd situation, vehicle detection, live alarm, linkage record, global linkage
Alarm Linkage Action	Video preview / record / capture / PTZ preset / email / audible warning / monitor alarm / SMS / TV Wall / Access control / elevator
Alarm Retrieval	Channels, Time, Type (General alarm, Operation alarm)

E-Map

GIS Map	Google Maps / Baidu Map / SuperMap
Format	PNG/JPEG/BMP
Map Alarm	Real-time monitoring, alarm flash, search and acknowledge
Features	Graphical alarm report, hot area, map zoom in/out, ordinate adjusting, preview, playback, personnel tracking

Video Patrol

Configuration	Patrol group, patrol plan, task list
Features	Real-time patrol monitoring, graphical patrol status, patrol alarm, patrol report

Remote Client

Structure	Desktop C/S structure
Work Flow	Server mapping, auto data synchronize with server
Features	Live View / Playback / Alarm / E-Map

System Language

Language	Deutsch / Русский / Italiano / Português (Brasil) / Français / 日本語 / Español / Bahasa Indonesia / العربية / Tiếng Việt / 中文 (繁體) / ไทย / 한국어 / English / українська / 中文 (简体) / polski / română / Türkçe
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3rd-Party Integration

Hardware	LED Screen, Digifort camera
3rd-Party Connection	SMS Management, Social network-Line, WhatsApp
API / SDK	Available

Video Live Viewing Workstation Recommendations

CPU	RAM	GPU	Screen Resolution	Server OS	Network Card
Intel(R) Core(TM) i7 9th Gen series, 8 Core processor with speed of 3.7GHz or above	16GB DDR4 and above	GTX16 series or above	1920*1080 or above	Windows10 (64Bit) or above	Gigabit

System Topology

