SVMS Professional

Distributed and Comprehensive Hangzhou Daxun Video Surveillance Management System

SVMS Pro Video Surveillance Management Software is a centralized management platform developed by Hangzhou Daxun Digital Technology Co., Ltd. for the integration and administration of comprehensive security systems. This versatile software enables unified management of multi-brand video devices—such as IP cameras and NVRs—as well as AI boxes, network decoders, and IoT sensors all in one platform.

The software delivers a full suite of features for centralized monitoring and control, such as live and recorded video viewing, AI-powered alarm management, interactive e-maps, video wall display, and IoT device integration etc. Built for scalability, it supports an unrestricted number of cameras, devices and servers, and operates seamlessly on both Windows and Linux operating systems.

By providing operators with a complete overview and robust control over the entire installation, SVMS Pro is the ideal solution for institutions such as schools, hotels, retail chains, manufacturing plants and more.

Key Benefit

Scales as business grows

By virtue of a flexible and scalable architecture, the platform can be scaled as your business needs evolve. You can expand it from a small 100-channel system to an ulta-large-scale system that links up to 1000,000 channels of equipment.

Light and Efficient

Lightweight architecture features reduced consumption of system resources.

Capable of managing multiple systems of varying sizes with consistent efficiency.

Unified and Flexible

Supports combining various application plug-ins under a unified, on-demand architecture for collaboration across business segments.

New plug-ins can be continuously developed to meet new business needs.

Simplifies deployment and maintenance

There is no need to dismantle the original network security system, without changing the original monitoring layout, the independent network video surveillance systems in various places can be easily managed together with powerful SVMSPro platform through cascading. Moreover, maintenance of the whole system is much easier with visualized health monitoring in real time.

Integrated and open

Allows integration of other systems and device via API, SDK, Onvif, RTSP,RTMP, Hikvision EHOME/ISUP, Dahua Register, GA/T1400,GB/T28181 and mainstream manufactures' SDKs including Uniview SDK,Hikvision SDK, Dahua SDK etc;

Offers RTSP, HTTP-FLV,WS-FLV, HLS, REST API etc for the third-party development.

Customizable

Meet customers' personalized needs and assists them in formulating their market competitive advantage.

Key Components

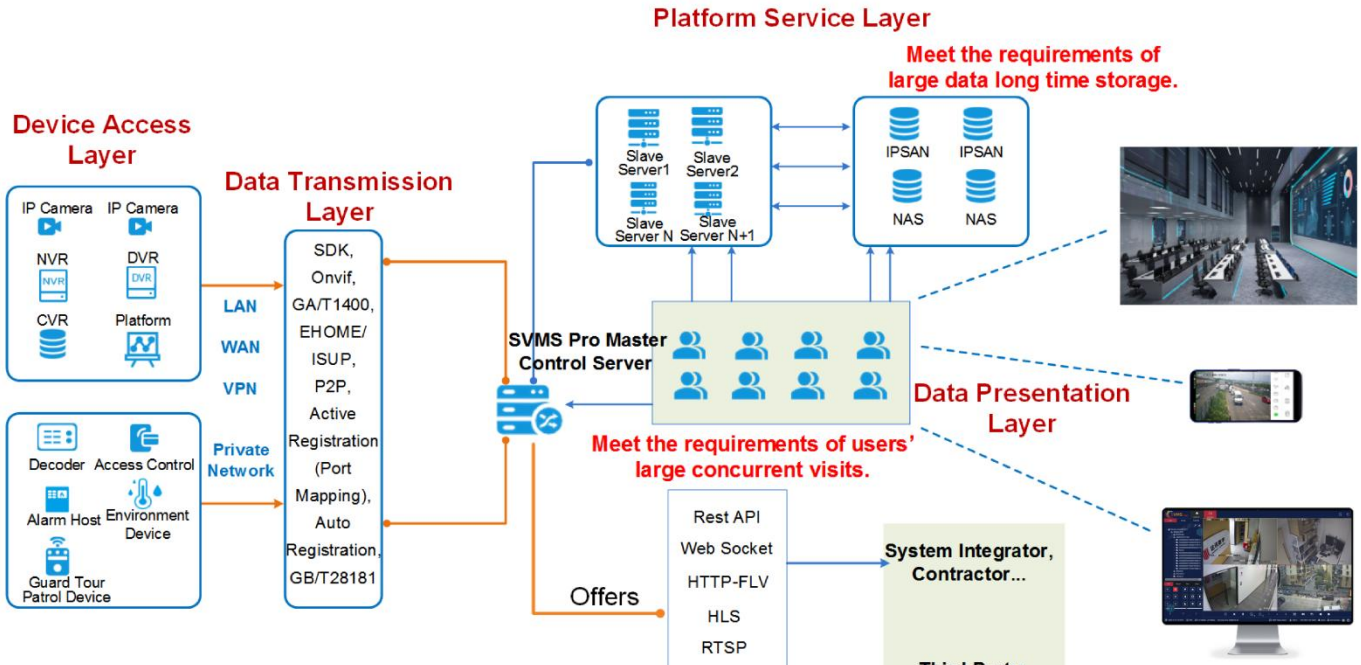
Server

- SVMSPro Master Control Server
- SVMSPro Slave Servers (Sub Servers)

Client

- Windows PC Client
- SVMSPro Linux Client
- SVMSPro Web
- SVMSPro Mobile Client: iSVMSPro (IOS/Android)

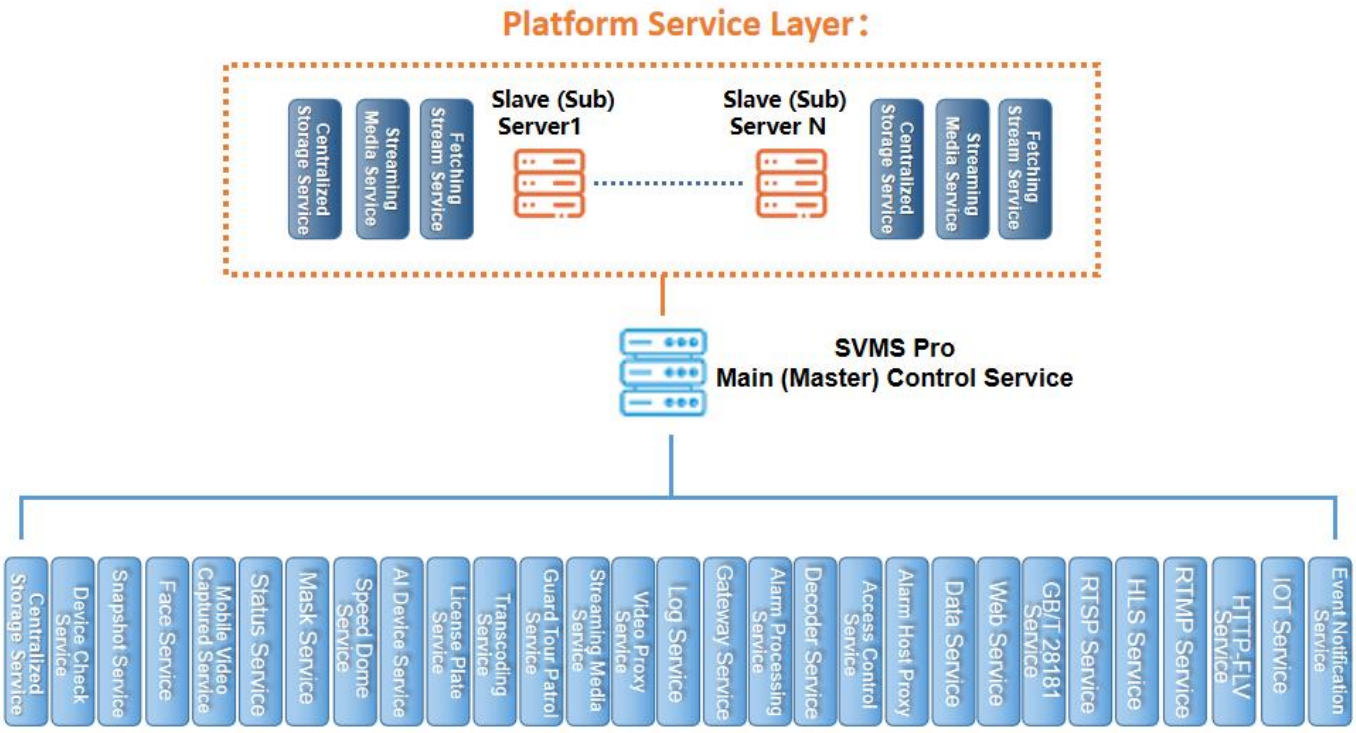
SVMSPro Application



Device access layer: Capture, gather and manage the video data from on-site third-party security devices such as IP cameras, NVR etc via SDK, ONVIF, RTSP, RTMP, GA/T 1400,GB/T 28181, P2P and proprietary protocols such as Hikvision Ehome/ISUP, Dahua Register. (Up till now we have managed more than 100 brands of security devices, such as Hikvision, Dahua, Uniview, Tiandy, TVT, AXIS, SAMSNG, Honeywell etc.)

SVMSPro Architecture

Platform Service Layer includes SVMSPro master control server and its slave/sub servers. One master control server can work with multiple slave/sub servers (known as master-slave architecture), which bring the services below:



Data Presentation Layer: The whole SVMSPro platform will present itself by its client, web, mobile phone or the video wall.

Data Application Layer: SVMSPro also offers REST API, WS-FLV, HTTP-FLV, HLS, RTSP, GB/T28181 for the third-party development.

SVMSPro Technical Features

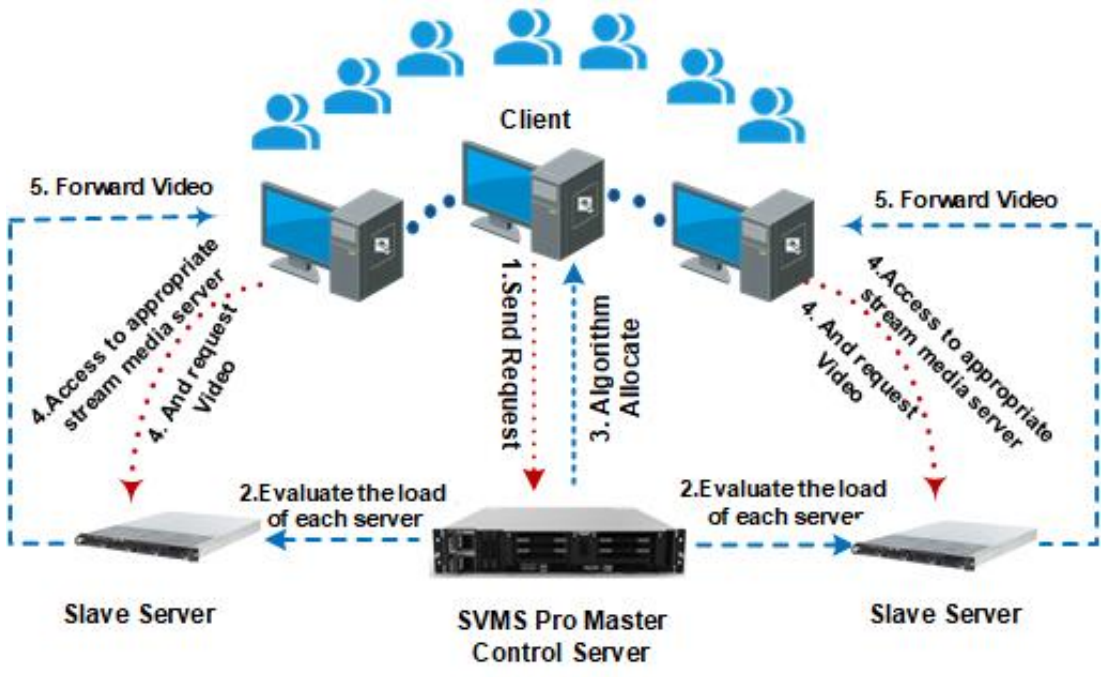
The SVMSPro platform adopts component-based, modular design and master-slave open flexible architecture, which brings technical features below.

Unified & flexible modular plugins.

Component-based modular design enable platform to combine various modular application plug-ins under a unified on-demand architecture for collaboration across business segments. What's more, new plug-ins can be continually developed to meet new business needs.

Meet the requirements of users' large concurrent access.

Master-slave architecture allows one master control server can be equipped with any number of slave/sub streaming media servers. When the clients request video,the algorithm of master server will evaluate the load capacity of each server, then allocate appropriate access to the streaming media servers,so as to achieve the optimal stream distribution for the clients. The clients can obtain real-time video or video playback directly from streaming media server. In this way it greatly reduces the pressure of the master control server, avoids the impact of heavy media streams on control and management information.Thus with the increasing number of requesting video at the same time, users only need to increase the number of streaming media servers.



Meet the requirements of large data long time storage.

Master-slave architecture allows one master control server can be equipped with any number of slave/sub storage servers. One slave/sub storage server can be installed many disk groups (including IPSAN, NAS etc) . Therefore when the bandwidth is enough, users only need to increase the number of storage server, so as to meet the requirements of long-time recording and provide higher storage performance.

Strong hybrid management capability of multi brands surveillance devices and security Systems.

SVMS Pro serves as a unified platform with strong hybrid management capabilities, seamlessly integrating multi-brand surveillance devices and diverse security subsystems. It centrally operates and interconnects key systems including video monitoring, video library storage, AI analysis, video wall control, IoT devices, and traceability platforms, ensuring cohesive oversight and intelligent synergy across the entire security ecosystem.

A variety of applications cover a broad range of business needs

All major security needs are covered through a variety of core security modules, including video, video wall, access control, alarm host, alarm detection, mobile monitoring, face recognition display, license plate display, intelligent analysis and so on. Whatever your situation, you will find what you need right here. And all applications connect in an interactive way to build a truly unified architecture, enhancing your operational efficiency.

Flexible deployment

- Master-slave open architecture can flexible choose centralized or distributed deployment according to the networking scale.
- Support LAN and WAN deployment.
- You can build SVMSPro platform directly on the cloud or in your own company’s computer room.
- By increasing the number of corresponding slave servers (sub servers), the platform can be scaled without affecting the current existing platform system.
- You can expand it from a small 100-channel system to an ultra-large-scale system that links up to hundreds of thousands channels of equipment, and can be continuously scalable according to the subsequent networking and business development.

Offers multiple protocols for third-party development and integration .

- Push streaming service: GB/T28181, RTSP,HTTP-FLV,WS-FLV,HLS,REST API etc are provided to push to the upper application platform.
- Offers GB/T28181, RTSP,HLS, HTTP-FLV,WS-FLV, REST API etc for the third-party development.
- Provide HLS, HTTP-FLV,WS-FLV, RTSP service which enable user to preview videos across browsers without plug-ins. What's more, they can be used for live broadcasting with strong real-time performance.
- WS-FLV: More than 6 channels can be previewed at the same time under Chrome browser.
- GB/T28181: Support GB/T 28181-2022, GB/T 28181-2016, GB/T 28181-2001 protocol. Support pushing GB/T 28181 of a single device to multiple upper platforms at the same time.
- Support GA/T1400 protocol. Support face and license plate information transmitted through GA/T1400 protocol.

Support cascading of multiple platforms

SVMSPro Based On Windows32 OS

- Support Hikvision (iSC,9800,8200,7600,7200）Platforms;
- Support Dahua (DSSPro, 7016) Platforms;
- Support IMOU Cloud Platform; EZVIZ Cloud Platform.
- Support all platforms which support GB/T28181 protocol.

SVMSPro Based On Windows64 OS or On Linux OS

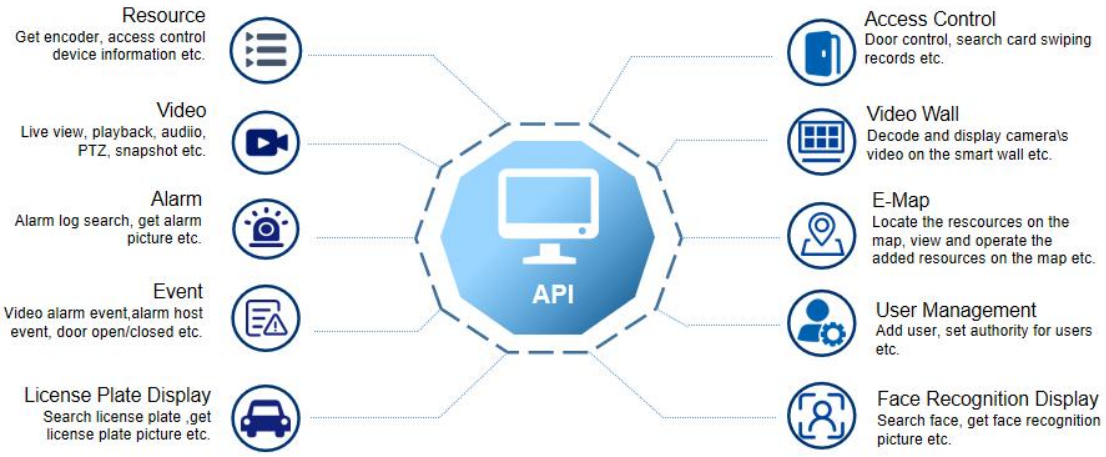
- Support Hikvision iSC platform;
- Support Hua Wei IVS 1800 platform;
- Support Dahua DSS7016 Platforms;
- Support Uniview IMOS platform.
- Support all the platforms which support GB/T28181 protocol.

Support all kinds of cloud.

- Support Amazon Cloud, Aliyun Cloud, Tencent Cloud, Baidu AI Cloud, JingDong Cloud, Huawei Cloud, Kingsoft etc. You can build SVMSProfessional platform directly on the cloud.
- Support virtual host of VMware, Virtual box.

Open system architecture allows easy & convenient integration

Collaborative, goal-oriented development creates the most useful and customizable applications.Hangzhou Daxun has created an open software development kit for innovated systems to meet any particularized demand.



Support multiple video formats

The SVMSPro supports H.264, H.265, and H.265+ video compression.

SVMSPro Functional Characteristics

Device Management (Accessing and management of surveillance resources)

- Support center management of IP Camera, DVR, NVR, CVR of various Brands.
- Add third-party IP video encoding devices (such as IP camera, DVR, NVR, CVR etc) via standard protocols such as ONVIF, RTSP, RTMP,GB/T28181,GA/T1400.
- Add third-party video devices by their private protocols of mainstream manufacturers: for example: using Hikvision Ehome/ISUP protocol to manage their own cameras, using Dahua register protocol to manage Dahua cameras etc.
- Integrate third-party video devices for centralized management by utilizing the official SDKs provided by mainstream manufacturers, including Uniview, Hikvision, and Dahua.
- Support device management via the LAN,WAN,4G/5G network.
- Add devices via auto search, IP, Domain, IP segment, auto register;
- Easy multi-site management through cascading.

- Manage multi-brands alarm host devices (support Hikvision,Honeywell,Bosch,ALEAN and Inanter brands), access control devices (support Reformer and Max brands), decoders (support Hikvision, Dahua, Daxun Digital brands), face recognition devices (which support GA/T1400 protocol), license plate devices (which support GA/T1400 protocol), video captured mobile phones and AI servers.
- Easy operation to import device and export device list including channels' latitude and longitude information.
- Set device list by adding area and device.
- Set groups by adding group and device.

Role and User Management

- Manage the user's permission by role (device permission, control permissions etc).
- User can be assigned with the roles to obtain the corresponding permissions.
- Set basic information for user.

Video Management Features

Live view

- Support multi-screen auxiliary display. Users can display different monitoring window on multiple display screens at the same time according to the needs. For example, user can display live-view image on screen 1, at the same time operate playback on screen 2 and view e-map on screen 3.
- Support automatic/manual switching of video definition.
- Display device tree; show or hide offline device.
- Display the device IP address or device name on the device tree.
- Display the group tree.
- View real-time video.
- Digital zoom
- Support picture in picture mode.
- Common layout (1/4/6/8/9/10/13/16/17/25/36...15×15) and customized layout.
- Lock or unlock the video window information bar
- Save the current live view as a view.
- Support adding channel to favorites.
- Adjust the display mode (full screen and original).
- Video tour by device,favorites, view.
- Adjust front-end device's time.

- Quickly jump to playback.
- PTZ control
- Manual recording
- Snapshot
- Turn on/off the audio in live view.
- Set the video sharing validity period, generate QR code and share video URL.
- Support main and sub stream selection for live view.
- Add the channel to the favorite.
- Display device ID.
- Check device IP.
- Display the e-map on live view interface, showing camera locations in real time.

Recording storage, playback and download.

- Support central storage management.
- Support centralized storage and S3 protocol based cloud storage.
- Support recording schedule: creating record plan by time template.
- Storage server disk settings for recording, pictures etc.
- Support disk failure detection.
- Support alarm recording, normal recording and manual recording. When an alarm occurs, the video recording can be triggered. Or you can manually send a command to trigger the video recording.
- Play back the video from the devices or from the central storage server or from the cloud.
- Search video by time (accurate to second)
- Playback: supports multi-speed fast forward and slow motion playback.
- Tag the important record.
- Turn on/off the audio.
- Snapshot
- Adjust the display mode (full screen and original)
- Download record from central storage or device.
- Download record by time.
- Support multi-task download.
- Support video recording integrity function:Automatically detects and logs the completeness of the previous day's continuous recordings from front-end devices.
- Support video recording completion feature: it allows for the seamless upload and secure storage of video recordings from edge devices (such as IP cameras and NVRs) to a central server.

Recording Completion

A module for remote archive synchronization, It includes:

- Online completion
- Scheduled completion
- Manual completion

Snapshot and Picture Browse

- Snapshot during preview or playback
- Set scheduled snapshot
- Search the captured pictures by time, device and keywords
- Export pictures in batch

Event

- Users can get real-time alarm event and check history alarm information.
- Alarm details: the information like time, trigger source, event type, event details, alarm snapshot image, alarm recordings and alarm device status will be displayed.

Event Management

- Alarm source: Device, video channel, alarm input,alarm host,access control, guard tour patrol, AI alarm devices, IoT sensors.
- Alarm events: Alarm decoder alarm, blind alarm,motion detection alarm, video loss detection alarm, device offline, video standard mismatch, manual alarm, perimeter alarm, sensor alarm, sudden change of sound intensity alarm, region entrance detection alarm, region exiting detection alarm, face detection alarm, people failing down detection, regional people density alarm, object left alarm, wear mask, no mask detection, object removal alarm, area crossing detection, strenuous exercise detection.
- Alarm linkage action: snapshot, record, preset,email,SMS, audible warning, alarm output trigger relay on alarm host, alarm output trigger siren on alarm host,link access control, pop-up window on video wall, and alarm output.

Video Wall

- Support Hikvision, Dahua and our own brands' network decoders.
- Supports multi video walls configuration and management control.
- Creates different video wall view scheme.

- View the real-time video.
- Manage the video wall split.
- Support screens merging.
- Bind the decoding channel to the corresponding screen.
- Select main stream or sub stream for video channel.
- Add and manage decoder host.
- Tour the video channels in one screen.
- Display the playback on the video wall.
- Support main and sub stream selection for real-time video.

E-Map

- Support displaying Google GIS map (by default) and 2D flat map (in PNG and JPG formats).

Google GIS Map

- Support positioning the device and displaying its longitude and latitude information on Google GIS online map.
- Enable real-time monitoring and historical recording playback of the video device on Google GIS map.
- Facilitate the association of GIS map with 2D flat map to support layered data visualization.

2D Flat Map

- Zoom in or out the map.
- Multiple levels of sub-maps
- Locate and configure the resources (such as camera, alarm input, access control channels, hot zone etc) on the 2D flat map
- One camera position point on the 2D flat map can link with up to four different camera videos.
- Alarm source turns red on the map when alarm occurs
- Support alarm linked pop-up video.
- Remote door opening and closing.
- Arm and disarm,bypass and bypass recovery the resources.

GIS devices Management

- Manage GIS devices by Hikvision ISUP protocol, Dahua Register protocol and GB/T28181 protocol.
- Support integration third-party GIS devices by SDK or protocols.
- Supports real-time tracking display of GIS devices on the GIS map.
- Supports playback of historical tracks for GIS devices on the GIS map.

IoT System Management

- Add IoT security cameras, sensors and IoT software platform into SVMSPro platform;
- Support real-time display of various IoT device data: list, chart;
- Support historical data query of various IoT devices and displays them in lists and charts. Users can export relevant historical data by themselves;
- Support IoT-based alarm system;
- Support the display of IoT device data and its linked video on GIS map.

Access Control Management (Available on SVMSPro based on windows32)

- Support Reformer and Max brands access control system. Other brands of access control devices also can be integrated according to the requirements of customers.
- Door status and door events monitoring
- Real-time display of access control status: swiping the card to open the door; card swiping abnormally etc.
- Remote operation of opening or closing doors.
- Keep doors open or close in emergencies when the alarm system triggers roll calls of stranded personnel, contributing to safety of personnel.
- Support linkage control with video monitoring: alarm, opening and closing door linked pop-up video
- The door can be marked on the e-map and its real-time status can be displayed.

Network Voice Intercom

- It can two-way communicate with all IP cameras under GB/T28181 protocol, Hikvision IP cameras under the EHOME protocol and all Dahua active registered devices through the internet.
- It also support two-way communication with all Hikvision, Dahua, Tiandy, Uniview IP cameras in a Local Area Network (LAN) or Private network environment.

Alarm Host Controller Management (Available on SVMSPro based on windows 32)

- Support Hikvision,Honeywell,Bosch, and Inanter brands alarm host controllers. Other brands of alarm host devices also can be integrated according to the requirements of customers.
- Support arming,disarming, bypass, bypass recovery,siren output, alarm information display etc.
- Display the real-time status of subsystems and defense areas.
- Support alarm linkage with pop-up video.
- Subsystem and defense area can be marked on the e-map and their real-time status can be displayed.
- Cancel alarms.

Face Recognition Display

- Support face information transmitted through GA/T1400 protocol.
- Support face information transmitted through Hikvision device.
- Save and display face recognition results reported by front-end recognition device.
- Support to view the original face image.
- Search for face by time,device or keywords
- Support uploading face image to the upper-layer third-party platform by GA/T1400 protocol.

License Plate Recognition Display

- Support the license plate information transmitted through GA/T1400 protocol
- Support the license plate information transmitted through Hikvision device
- Support the license plate information transmitted through Dahua device
- Search for license plate by time, device and license plate number.
- Support to view the original license plate image.
- Support uploading license plate image to the upper-layer third-party platform by GA/T1400 protocol.

AI Alarm

- SVMSPro perfectly integrates AI box, display real time video analysis results from AI analysis devices.
- Search the historical records of intelligent analysis alarm.
- Users can perform the AI event settings, alarm triggering recording, snapshot and further investigation with a unified video management software SVMSPro.
- Support uploading intelligent analysis alarm information to the upper-layer third-party platform.

Statistics

- Provides real-time trend analytics and statistical reports for face snapshot data transmitted through GA/T1400 protocol.
- Provides real-time trend analytics and statistical reports for license plate snapshot data transmitted through GA/T1400 protocol.
- Provides real-time trend analytics and statistical reports for AI alarm snapshot data transmitted through AI box.
- Provides statistical reports for AI device online and offline status.
- Provide people flow statistical report on a daily, weekly, monthly, and annual basis, covering visitor demographics (such as age and sex) and movement patterns (entry, exit, or pass-through) based on the data transmitted through AI box or third-part people counting AI cameras.

Guard Tour Patrol Management (Available on SVMSPro based on windows 32)

- Support some models of Hikvision patrol devices, other brands of patrol devices also can be integrated into SVMSPro platform.
- Obtain the real-time longitude and latitude information of patrol devices.
- Support patrol points, patrol routes, patrol plans configuration.
- Support export of patrol reports, so as to facilitate the control and management of patrol systems.
- Support editing patrol points on E-map and displaying real-time status of patrol points.

Protocols Configuration for third-party development and integration.

- Auto generate video channel's HLS, HTTP-FLV, WS-FLV, RTSP URL.
- Scan code and watch live broadcast of video channel.
- Export HLS, HTTP-FLV, WS-FLV, RTSP URL address.

HLS

- Push HLS stream to the upper application platform.
- Add video channel which needs HLS service.
- Export video channel's HLS URL.
- Restart HLS server.

HTTP-FIV

- Push HTTP-FLV H.264 or H.265 video stream to the upper application platform.
- Export video channel's URL.
- Offer HTTP-FLV H.265 video, enable users to watch H.265 video directly on Chrome browser or mobile phone or tablet PC. Users don't need to change front-end camera's parameters from H.265 to H.264, when manage H.265 and H.264 cameras all together in one platform.

WS-FLV

- Push WS-FLV H.264 or H.265 video stream to the upper application platform.
- Export video channel's URL.
- Offer WS-FLV H.265 video, enable users to watch H.265 video directly on Chrome browser or mobile phone or tablet PC. Users don't need to change front-end camera's parameters from H.265 to H.264, when manage H.265 and H.264 cameras all together in one platform.

GB/T28181

- Access to front-end video surveillance devices under the protocol of GB/T 28181.

- Set GB/T28181 node for video channel, device, cascading platforms.
- Support automatic generation of device's GB/T28181 ID.
- Support device ID checking to avoid device ID conflicts.
- Import or export 28181 ID information.
- Support platforms cascading by GB/T28181 protocol.
- Provide GB/T28181 platform center management.
- Add upper-level platform to GB/T 28181 center management.
- Push GB/T 28181 stream of corresponding channel or device to upper level platform.
- Support pushing a single device to multiple upper platforms at the same time. (2 upper level platforms by default.)

Video URL

Supports both permanent and temporary video URLs.

- **Permanent URL:** The video link remains valid indefinitely and does not change.
- **Temporary URL:** A validity period can be set for the video link, which expires automatically once reached.

Generate WS-FLV, HTTP-FLV, RTSP, HLS mainstream and sub-stream URL（Available on SVMSPro based on windows 64 64 OS or On Linux OS).

System Maintenance

Video Quality Diagnostics

- **Signal Loss Detection:** detect front-end cameras that go offline or experience connection failures.
- **Blur Detection:** Identifies lenses that have become unfocused due to tampering, defocusing, or environmental factors like condensation.
- **Color Abnormality Detection:** Flags video streams with unexpected color casts.

Backup and Restore

- Automatically back up system database.
- Manually back up system primary database and log database.

System Dashboard

- Overview and detail system information.
- Running status: CPU,storage,RAM,bandwidth
- Service, device and user online information, device health report.
- Display software registration information:authorized registration channels, functional modules etc.

Log Search

- System,device,alarm host,guard tour patrol,access control event,access control status log.
- Search and export log.

System Configuration

- Set server restart interval time.
- Time synchronization: synchronizing the time between server and accessed encoder.
- Set web, media stream, control, RTSP port.
- Configure stream media server.
- Configure snapshot storage path setting.
- Display the parameters required for configuring sub-platform access on SVMSPro.
- Configure the data retention duration of logs and primary database.
- Email server configuration.
- SMS configuration

Service Management

- Delete the slave server (also called sub server)
- Enable and disable slave server (also called sub server)
- Automatically assign devices to different servers to balance the server load.
- Display loading time, active time and status of every service module.
- Restart each functional service module.
- Export log.

Cascading Management

- Add subordinate site for cascading .
- Superior level can view the live video and video record of subordinate site.

Assets Management *(Available on SVMSPro based on windows 32)*

- Display name, model, brand, supplier, purchase data, warranty, maintenance related information of video device,alarm host device, access control host of the whole system.
- Add or edit asset number,name,type, model, brand, supplier. Purchase date, warranty and remark for video device, alarm host device and access control host device.
- Support form and chart mode.
- Search for detailed assets information by purchase date, device type, and keyword.

- Export assets information.

Add-ons

- Support multiple language: English, Spanish,Traditional Chinese, Simplified Chinese
- Support streaming media server configuration.
- Support remote management. Multiple clients can monitor at the same time.
- Support mobile monitoring. Provide mobile phone monitoring applications for IOS/Android.
- Support RTSP, HLS, HTTP-FLV, WS-FLV protocols, users can directly watch live broadcasting video on browser without installing any monitoring application software on PC or on mobile phone.
- Support customization. Flexibly customize the functional features to meet customers' personalized needs and assists them in formulating their market competitive advantage.

SVMSPro System Performance

- Support up to 1 million video channel management
- The capability of each server is either up to 200ch recording per sever **OR** 200ch viewing at the same time.

SVMSPro System Difference Between Win32 and Linux or Win 64

Functions	**SVMSPro Based on Windows 32**	**SVMSPro Based on Linux or Windows 64**
Database	SQLite3	MYSQL, SQLite3
Collect and manage video devices by ONVIF	Support	Support
Collect and manage video devices by RTSP	Support	Support
Collect and manage video devices by RTMP	Support	Support
Collect and manage Hikvision video device by Hikvision private protocol: Ehome/ISUP, or SDK	Support	Support
Collect and manage Dahua video	Support	Support

device by Dahua private protocol: Auto Register protocol, or SDK		
Collect and manage devices by GB/T28181	Support	Support
Manage devices by GA/T1400	Support	Support
Collect and manage Uniview video device by Uniview SDK	Support	Support
P2P protocols	Support (see the list below)	Don't suppor
Easy multi-site management through cascading	Support Hikvision (ISC,9800,8200,7600,7200) platforms;Dahua (DSSPro, 7016) platforms;Uniview VMS platform;IMOU Cloud platform and EZVIZ Cloud platform, Hua Wei IVS 1800 and all platforms which support GB/T28181 protocols etc	Support Hua Wei IVS 1800, Hikvision ISC platform, Uniview IMOS platform and all other platforms which support GB/T28181 protocol.
Protocols configuration for third-party development and integration.	RTSP, HLS, WS-FLV, HTTP-FLV, GB/T28181 and Rest API.	RTSP, HLS, WS-FLV, HTTP-FLV, GB/T28181 and Rest API.
Live view	Support	Support
Remote device playback, center playback and tagged video Playback.	Support	Support
Centralized storage	Up to 200ch	Up to 200ch
S3 Cloud Storage	Not Support	Support
Recording Completion	Not Support	Support
Video Recording Integrity	Not Support	Support
Video Recording Completion	Not Support	Support
Video Quality Diagnostics	Not Support	Support
Picture snapshot and browse	Support	Support
Gathering face recognition image and license plate image via GA/T1400 Protocol	Support	Support
Display AI alarm	Support	Support

Alarm events management	Support	Support
User Management	Support	Support
Video wall control and display	Support, can manage Hikvision, Dahua and our own brand decoder to put the video on the wall.	Support, can manage Hikvision, Dahua and our own brand decoder to put the video on the wall.
E-Map	Support	Support
GB/T28181 note and center management	Support	Support
Access control	Support (see the list below)	Not yet.
Alarm host management	Support (see the list below)	Not yet.
IoT System Management	Support (see the list below)	Support (see the list below)
GIS Device Management	Support (see the list below)	Support (see the list below)
AI Device Management	Support (see the list below)	Support (see the list below)
SVMSPro Server	It does not have server UI. The whole system is configured by WEB and Client.	Linux only has code, does not have UI. The whole system is configured by WEB and Client.

SVMSPro Device Management List (Based on Linux or Windows 64)

Device Management	Function /Device Brand	Supported Brand /Access to device via protocols
Device management in LAN	Support device import and export in LAN	
	Support export channel latitude and Longitude information	
	Support device searching	Hikvision, Dahua, Uniview, ONVIF,Huawei,Tiandy ...
	Add device by mainstream manufacturers' SDK	Hikvision, Dahua, Uniview,Tiandy AXIS,Huawei NVR800,TVT...
	Add device by standard protocols	ONVIF, RTSP,HLS,RTMP...
	Hikvision	Ehome/ISUP, GB/T28181, GA/T1400
	Dahua	Auto-Register, GB/T28181, GA/T 1400

Device management in WAN (including NAT device management)	Uniview	GB/T28181
	Huawei	GB/T28181
	Tiandy	Auto-Register,GB/T28181
	TVT	Auto-Register,GB/T28181
	Other devices (IPC/NVR/CVR...)	Managed under protocol GB/T28181
Device Platform Integration	Hikvision Platform Software	iSC
	Uniview Platform Software	IMos
	Dahua Platform Software	DSS7016
	Huawei Platform Software	IVS1800
	Daxun Platform Software	SVMSPro
	Other Cascading Platforms	Managed under protocol GB/T28181
Face Recognition Device Management	Support face device management under GA/T1400 protocols.	Hikvision, Dahua,Huawei
License Plate Device	Access to license plate device under protocol GA/T1400	Hikvision, Dahua,Huawei
Decoder	Decode the real-time video to the video wall etc.	Hikvision, Dahua and Hangzhou Daxun.
IoT Sensor	Display IoT sensor real time and historical data. Configure IoT sensor alarm system. Locate IoT sensor resources on the map and linked its video.	Renke IoT devices, such as temperature and humidity sensor etc.
GIS Device	Support Hikvision ISUP, Dahua Register and the devices based on GB/T 28181 protocol.	Support Hikvision ISUP, Dahua Register and the devices based on GB/T 28181 protocol.
AI Device	Daxun	A Series, H Series
	Other no restrictions.	Needs to integrate first

SVMSPro Device Management List (Based on Windows 32)

Device Management	Function /Device Brand	Supported Brand /Access to device via protocols
Device management in LAN	Support device import and export in LAN	
	Support export channel latitude and Longitude information	
	Support device searching	Hikvision, Dahua, Uniview, Huawei, Onvif...
	Supported device list	http://www.midvision.cn/support.html
Device management in WAN (including NAT device management)	Hikvision	Ehome/ISUP, GB/T28181, GA/T1400
	Dahua	Auto-Register, GB/T28181, GA/T 1400
	Uniview	GB28181
	HUAWEI	Active-Register, GB/T28181,GA/T 1400
	TIANDY	Auto-Register,GB/T 28181
	XM	P2P, GB/T28181
	TOPSEE	P2P, GB/T28181
	TVT	Active-Register, GB/T 28181
	RTMP	RTMP
	RTSP	RTSP
	HLS	HLS
	HTTP-FLV	HTTP-FLV
	ONVIF	ONVIF
	Other devices (IPC/NVR/CVR...)	Managed under protocol GB/T28181
Device Platform Integration	Hikvision Platform Software	ISC,9600,8200,8250,7600,7000,6600 etc
	Dahua Platform Software	DSS,DSS Pro, 7600 etc
	Daxun Platform Software	SVMSPro
	EZVIZ Cloud Platform	APP KEY, Secret
	IMOU Cloud Platform	APP KEY, Secret
	Other Cascading Platforms	Managed under protocol GB/T28181
Active-Register (Port Mapping)	Support device management under DDNS mode.	Hikvision, Dahua, XM
Face Recognition Device Management	Support face device management under GA/T1400	Hikvision, Dahua, Huawei

	protocols.	
Face Recognition Server		ArcSoft
License Plate Device	Access to license plate device under protocol GA/T1400	Hikvision, Dahua,Huawei
Video Captured Mobile Phone	Video captured by mobile phone	Hangzhou Daxun own video APP
AI Server	No restrictions.	Needs to integrate first.
Access Control Device	Add access control host and doors; Operate doors etc	Hikvision, Reformer, MAX,and Hundure.
Alarm Host Device	Support arming,disarming, bypass, bypass recovery,siren output, alarm information display etc.	Hikvision,Honeywell,Bosch, Inanter and ALEAN.
Decoder	Decode the real-time video to the video wall etc.	Hikvision, Dahua, Tiandy and Hangzhou Daxun.
IoT Sensor	Display IoT sensor real time and historical data. Configure IoT sensor alarm system. Locate IoT sensor resources on the map and linked its video.	Renke IoT devices, such as temperature and humidity sensor etc.
GIS Device	Hikvision, GB/T28181	Support Hikvision ISUP GIS devices and the devices based on GB/T 28181 protocol.

SVMSPro System Requirements

Operating System

- **OS for Server:**

  Windows: Windows 7-11 / Windows Server 2012 / 2016 / 2019 / 2022

  Linux: Ubuntu, Centos, Rocky Linux

- **OS for Windows Control Client:**

Windows: Windows 7-11 / Windows Server 2012 / 2016 / 2019 / 2022

- **OS for SVMSPro Mobile Client:**

  IOS: IOS 15.0 and above

  Android: Android 4.4 and above

Hardware

- Hardware for Server

Recommended Configuration (Physical Server) – 200 Concurrent Channels

CPU	12-Core, 24-Thread
Memory	32G+
System Disk	512G+
Ethernet Port	2 Ports@1000Mbps

Minimum Configuration(Physical Server)

CPU	Dual-Core, 4-Thread
Memory	4G
System Disk	60G
Ethernet Port	1 Port@1000Mbps

Recommended Configuration (Cloud Host / Virtual Server)

CPU	4-Core, 8-Thread
Memory	8G+
System Disk	40G+
Bandwidth (scaled to actual concurrent streams)	20M-200M (approx. 1/2/4M bitrate per camera)

- Hardware for Control Client

Recommended Configuration

CPU	8-Core, 16-Thread+
Memory	32G
System Disk	512G+
Graphics Card	1G independent graphics card, or 2G integrated graphics card.
Hard Drive Capacity	100GB free for SVMSPro Client
Ethernet Port	1 Port@1000Mbps

Minimum Configuration

CPU	4-Core,8-Thread
Memory	8G
System Disk	128G
Graphics Card	2G Integrated Graphics Card
Hard Drive Capacity	20GB free for SVMSPro Client
Ethernet Port	1 Port@100Mbps

- Hardware for Mobile Client

iPhone	iPhone 6S and above
Android	Resolution: 1280X720 and above RAM: 16GB and above

About recording storage and bandwidth calculation, please using the calculation tools on our website: https://www.daxunview.com/video-surveillance-bandwidth-calculator.html.