Surpassing VMS

AI Innovations in Image Recognition and Event Management

The Argo system is a core solution for the Spark surveillance ecosystem. With great flexibility and scalability, it can customized unique solutions according to different field requirements. This comprehensive management system integrates multiple devices to provide users with a single platform for easy management.

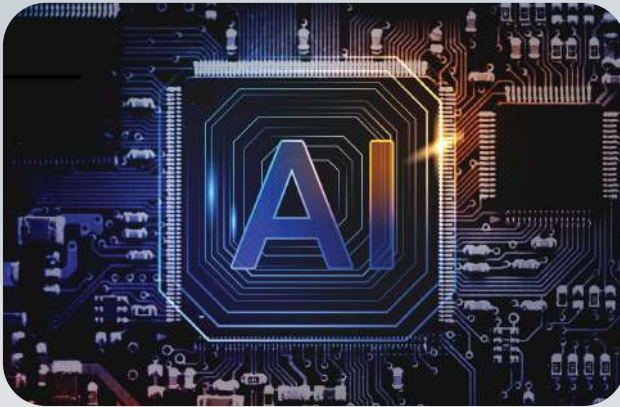▶ **AI detection for human,vechile,license plate,flame,smoke,cross-line**

▶ Dashboard

▶ LINE/Email notifications

▶ E-Map

▶ Health Doctor

▶ Local/Remote IP configuration

▶ Support ONVIF/RTSP video input

▶ Third party integration

▶ Support Master/Slave

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high-efficiency AI chip

Argo is a highly efficient surveillance system software, ensuring high-quality service. Our system adopts Kneron's AI chip, enabling precise and efficient detection.

Kneron

Various and accurate AI detection functions

Supports human, vehicle, smoke*, and fire* detection. With diverse AI detection functions, personnel can complete tasks easily.

*Optional

Analog cameras seamlessly upgraded to AI function

There are still over 60% analog cameras today. With this device, existing cameras can be easily upgraded to AI functionality without replacement.

Health Doctor

Detect the abnormal signal, sent out notification and provide basic troubleshooting procedures.Even cameras in distant, personnel can find out and take action immediately.
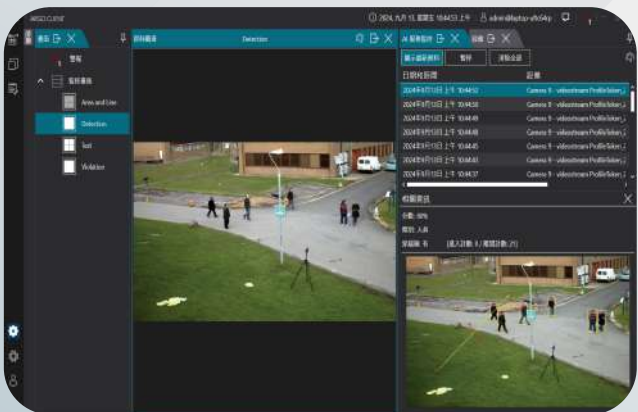
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Alert Notification

Integrates with E-mail / LINE Notify for instant notifications via E-mail or LINE app during events, keeping personnel informed and enabling prompt off-site action to mitigate risks.

Advanced event configuration

Enhances security by reducing false alarms with multi-feature alert conditions (AND/OR) and linked cameras for different perspectives. It also supports customizable alarm procedures for better accuracy.

Cross-Line Detection
Cross-Line Counting

Argo provides cross-line detection and counting capabilities, allowing for precise detection, multiple counting, data analysis, and real-time monitoring, effectively adapting to a wide range of security management requirements.
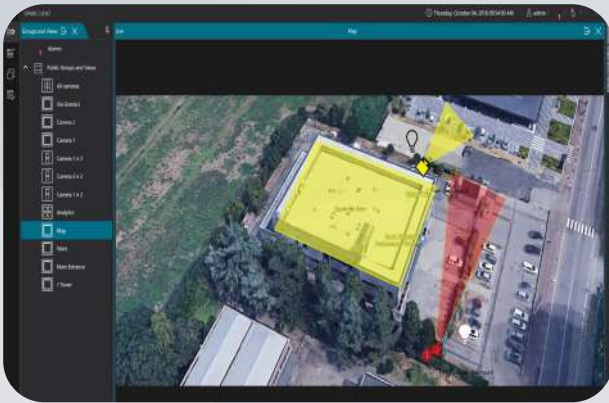
Dashboard

The Argo software can visualize camera image data, presenting the information in a graphical manner. Users can adjust the data dashboard according to their needs and preferences, offering a high level of customization and flexibility.
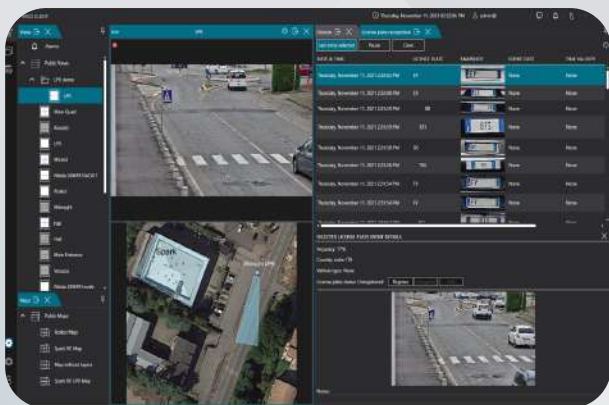
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E-map

Supports multi-layer electronic maps with configurable device position and angle to simulate real surveillance scenario. When an event occurs, relevant cameras will automatically trigger alerts and display real-time footage, aiding personnel in responding swiftly to incidents.

Vehicle Access Control

Argo supports LPR cameras and eTags, offering automated access control including real-time license plate registration and classification. Users can make notes for specific vehicles and create customized lists (e.g., VIP, blacklists, whitelists)for more effective access management.
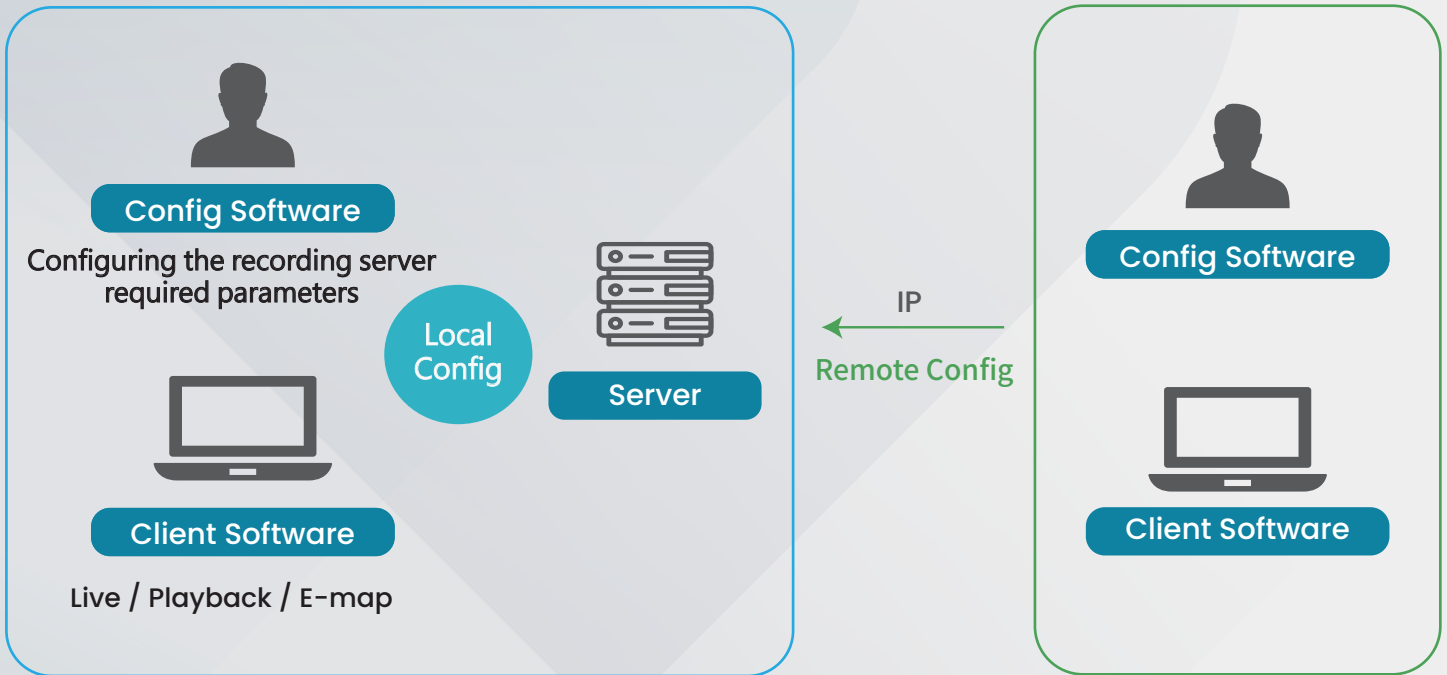

Advanced User Management

Administrators can tailor user privileges as required, including by device, functions,and time schedules. Furthermore, settings can be stored in groups for swift application of the same privileges to new users.
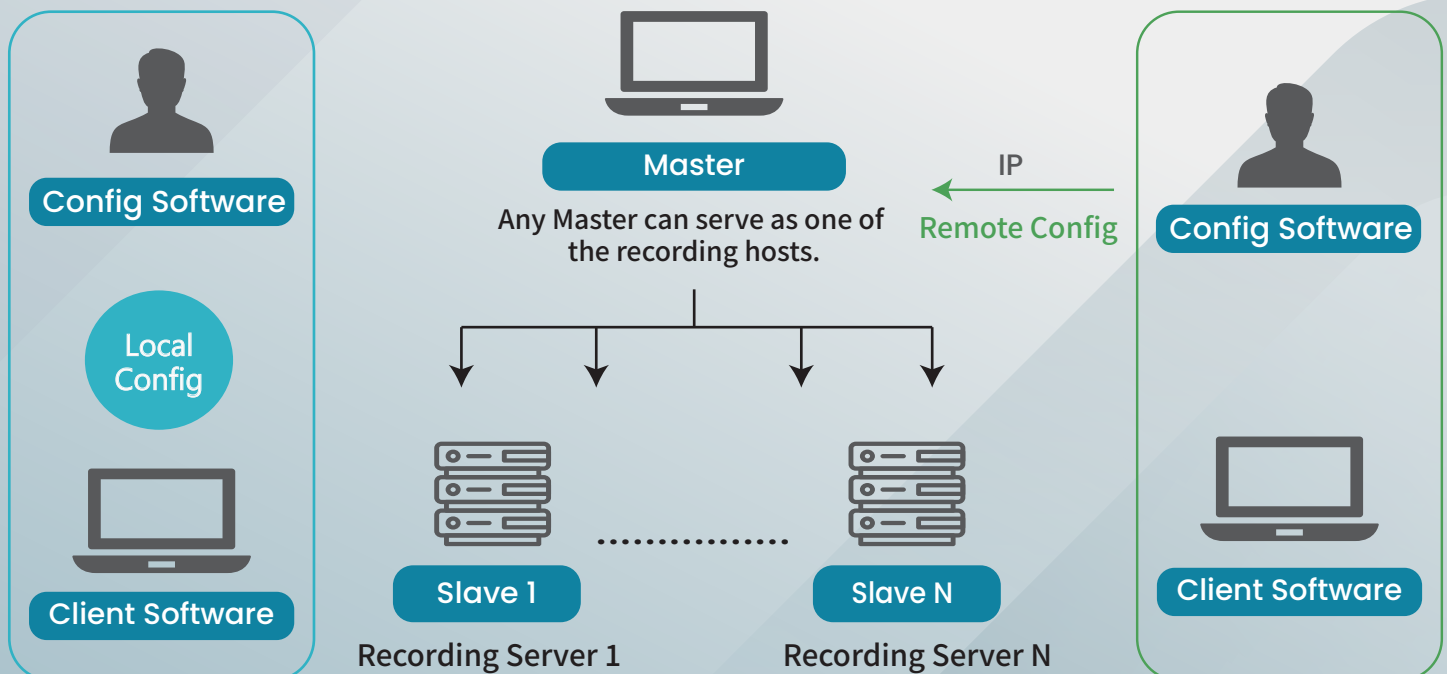
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System

Standalone

Users can configure the required parameters locally/remotely.

Config Software

Configuring the recording server required parameters

Local Config

Server

Client Software

Live / Playback / E-map

IP
Remote Config

Config Software

Client Software

Master/Slave

In addition to the Master server, users can easily add several servers as slave servers. With this structure, users can monitor and manage multiple screens at the same time.

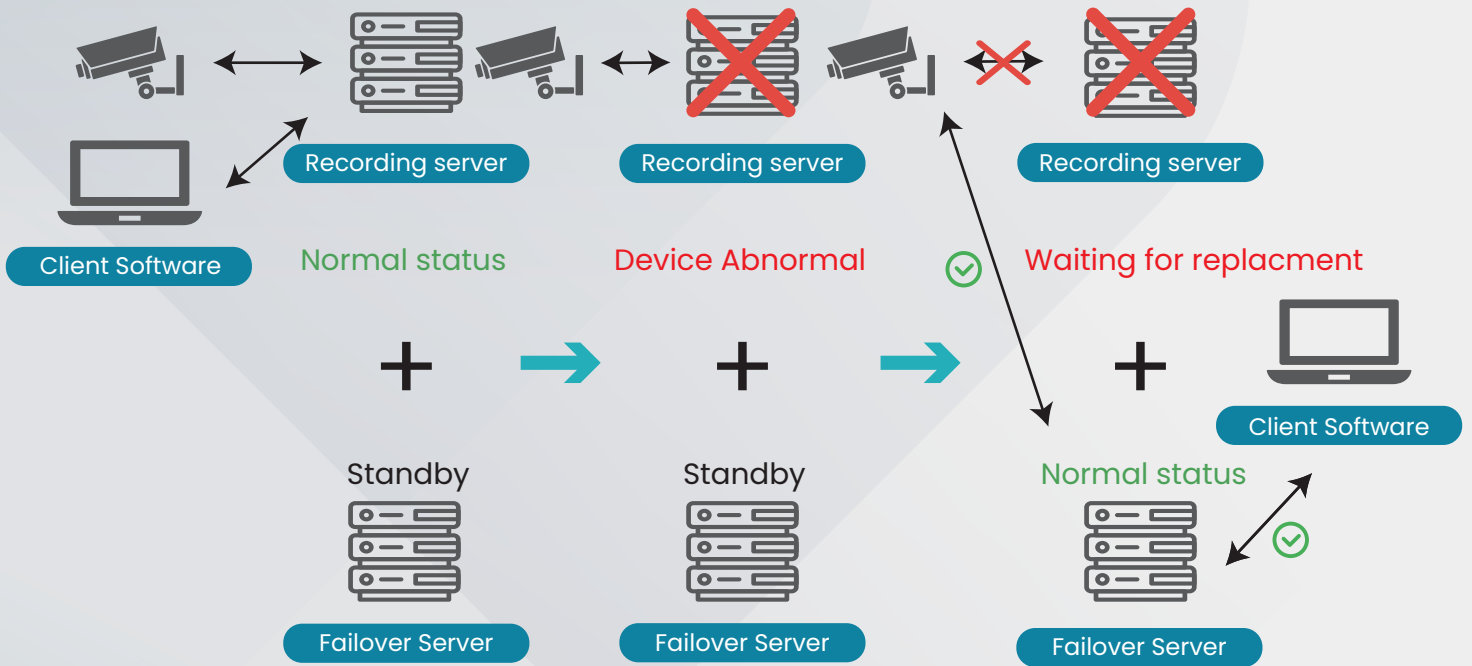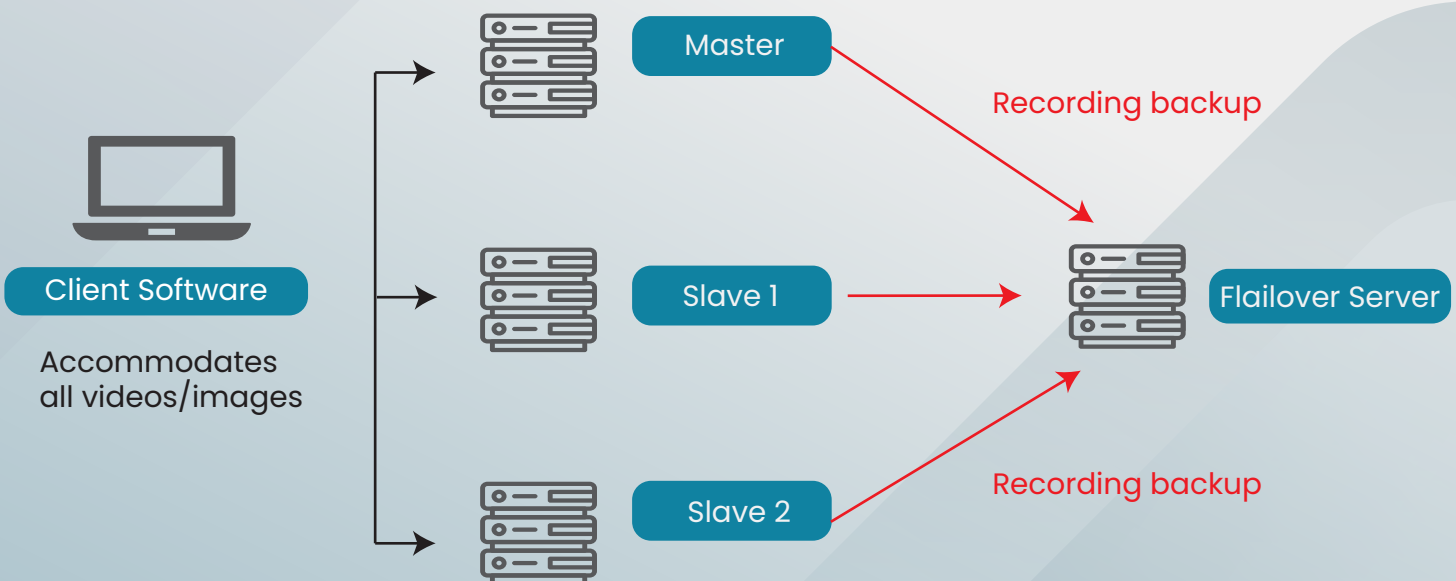**Config Software**

Local Config

Client Software

Master

Any Master can serve as one of the recording hosts.

IP
Remote Config

Config Software

Client Software

Slave 1

Recording Server 1

Slave N

Recording Server N

Failover

Standalone N+1

When the original recording device malfunctions, the failover server will be activated.

Client Software   Recording server   Recording server   Recording server

Normal status   Device Abnormal   Waiting for replacment

Client Software

Standby   Standby   Normal status

Failover Server   Failover Server   Failover Server

Master/Slave N+1

When any recording server malfunctions, the backup recording device will be activated

Client Software

Accommodates all videos/images

Master   Recording backup

Slave 1

Slave 2   Recording backup

Flailover Server

Specification

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Product Name	Software Name	Argo	
AI Management	Image Recognition	-Human detection / Vechile detection(car, motorbike, truck,bus, bicycle) -Object detection -Density detection -Loitering detection -Cross-Line Detection -Cross-Line Counting	-Smoke detection (optional) -Fire detection (optional) -License plate recognition (optional) -Vaxtor automatic license plate recognition (optional)
Platform Management	Dashboard	-Heatmap -Vehicle classification: car, motorbike, truck, bus, bicycle	-People counting -Vehicle counting
	E-map	-Unlimited e-map layers -Unlimited device to map -Event pop-up	-Rephase device position -Rephase device angle -Color-coded camera alarm status differentiation
	Health Doctor	-Spark AI failure -Devices failure -Network disconnection	-Disk failure -CPU usage critical
	Access Monitoring	-Real-time display of license plate	
	Alert notifications	-E-mail -LINE Notify -Grouped, Scheduled, Customized with content. -LINE notify image (Interval 1-300 secs)	
General	Compatibility	Compatibility Spark cameras, Omnieye cameras, 3rd party cameras[3]	
	Operating System	Win 11 IoT, Support for multi-monitor output	
	Video Compression	H.265, H.264, MJPEG	
	Audio Support	Two-way audio (client)	
	Liveview	-Liveview -Customizable layout -Multi-stream management	-Event pop-up -Manual snapshot and recording -PTZ control
	Recording	-Continuous/Scheduled recording -Event recording	-Edge recover -Event pre/post recording
	Playback	-Customizable layout -Instant playback -Synchronized playback -Date and timeline visualization	-Event playback -Playback speed controls -Manual snapshot
	Export	-Export multiple video with selectable time range -Snapshot and videos	-Support MOV, MKV, MP4, AVI, Spark format -Support watermark
	Certification	-CA / DLAP	

Remark:
[1] Only supports assigned camera.
[2] Applicable to previousluy integrated camera models.
[3] Third party camera compatible through ONVIF and RTSP.

Specification

Event management

Event Triggers	-Configurable based on device and schedule -AND/OR trigger conditions -Digital input -Camera analytics[1] -AI analytics	-System related events -User related events -Device and network related events -Third party events (LPR, eTag)
Event Actions	-Configurable alarm SOP -Configurable alarm recipient -Recording (support Pre/post recording up to 300 secs) -Digital output	-LINE notification -PTZ preset -PTZ tour -Linked camera and pop-up image

System management

User Pprivilige	-Configurable based on camera, function and schedule	
Camera Management	-Support basic camera settings	
Third-party Device Management	-Supports 24GHz radar, which can be used in conjunction with cameras for perimeter protection. -I/O module -LPR Camera	-eTag reader -LED display