



AI VMS

AI Video Management System
for Cities, Security, and Business Intelligence.



Argo is Spark's software for managing videos, events, and metadata. It efficiently controls both simple and complex systems using distributed client-server architecture, scalable to unlimited servers and cameras, supporting remote device settings, multilevel maps, video recording, and event management.

➤ Data Analysis



➤ Dashboard

➤ E-Map

➤ Real-time Notification

➤ Automatic System Check

➤ 3rd-party Device Compatibility

➤ Local/Remote IP Configuration

➤ Access Control Management

➤ Multi-country ALPR

➤ Supports ONVIF/RTSP Video Input

➤ Supports Master/Slave



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Features



AI Video Analysis Management

Argo processes image data in real-time, identifying human, vehicle, flame and smoke, while supporting behavior detection like intrusion and loitering for enhanced monitoring efficiency.



Customized Dashboard

Argo offers customizable dashboard design features, including layout configurations and charts (pie, line and bar), making it easy for users to view all statistics.



Remote Monitoring

Supports local and remote monitoring, allowing users to view and operate through different devices such as desktop, laptop, tablet and mobile.



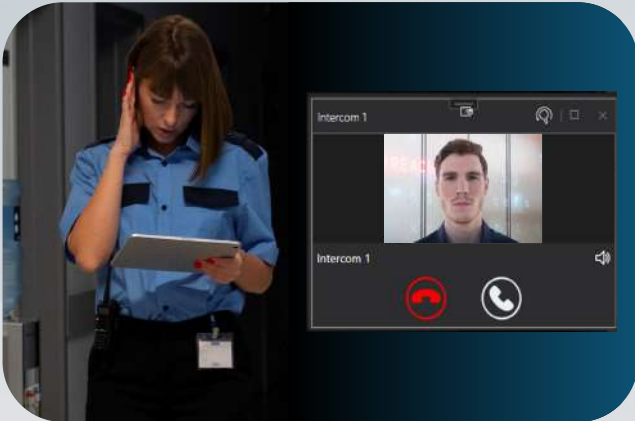
Advanced User Management

Administrators can adjust user permissions flexibly, saving settings to specific groups for quick application when adding new users, enhancing management efficiency.



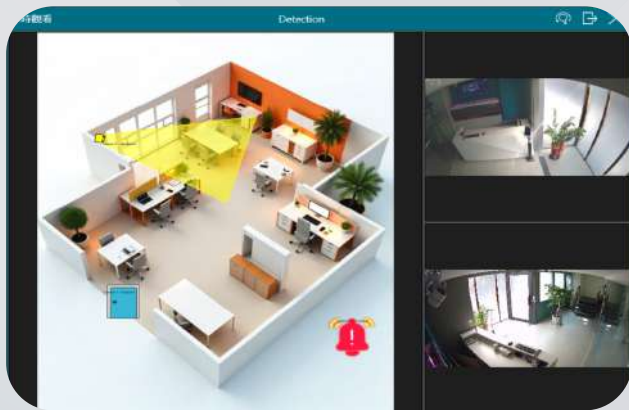
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Features



Two-way Intercom

Argo enables voice and video communication between managers and on-site personnel via intercom devices, recording all interactions for security and emergency readiness.



E-map

Supports importing Multi-level floor plan, making it easier to deploy monitoring devices. When an event occurs, alarms and real-time images will automatically activate to assist managers in responding quickly.



Real-time Notification

Integrates with Email and LINE to deliver instant event notifications, ensuring personnel stay informed and enabling timely remote intervention to mitigate risks.



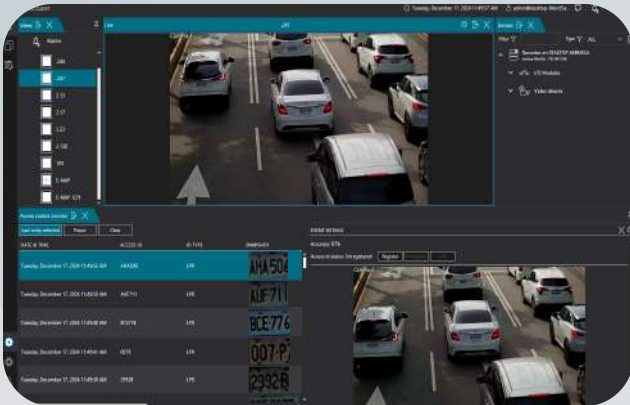
Health Doctor

Upon detecting anomalies, Argo immediately alerts managers and provides troubleshooting guidance to minimize downtime and safeguard assets.



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Features



Multi-country ALPR

Supports license plate recognition in 80% of countries, identifying 4526 models and 194 brands, with real-time vehicle monitoring and access records.



Access Control

Supports Soyal access control devices for vehicle and personnel management, enabling remote control and real-time monitoring via an electronic map.

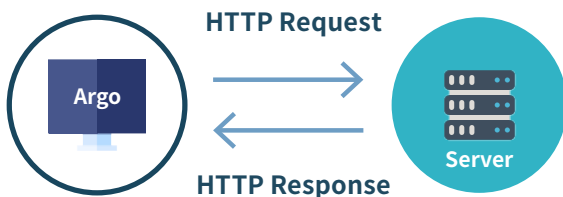


Cross-Line Detection and Counting

Argo accurately tracks pedestrian and vehicle flow, providing object crossing detection to support technology-based law enforcement and versatile safety management.

HTTP General Events

Supports Spark HTTP JSON events for flexible integration with third-party systems, real-time message overlay and synchronized recording for complete event management.



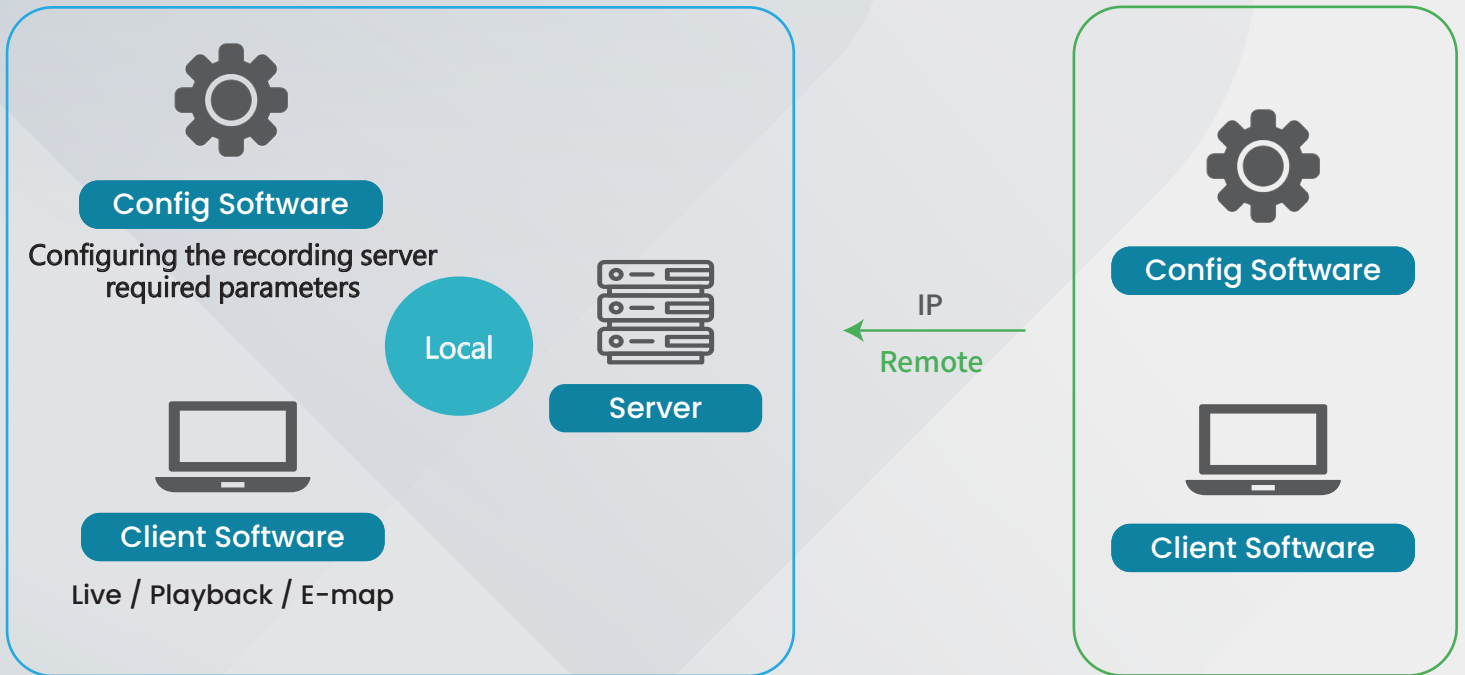
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System

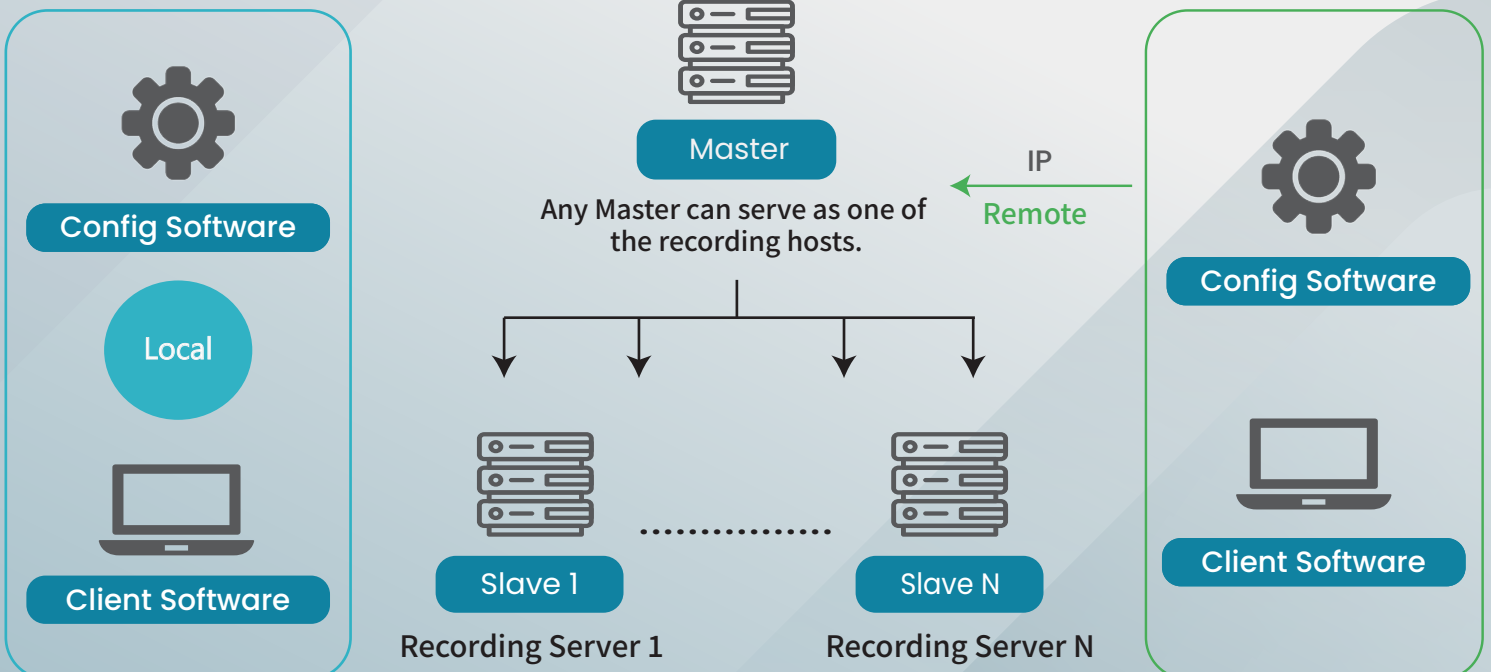
Standalone

Users can configure the required parameters locally or remotely.



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.

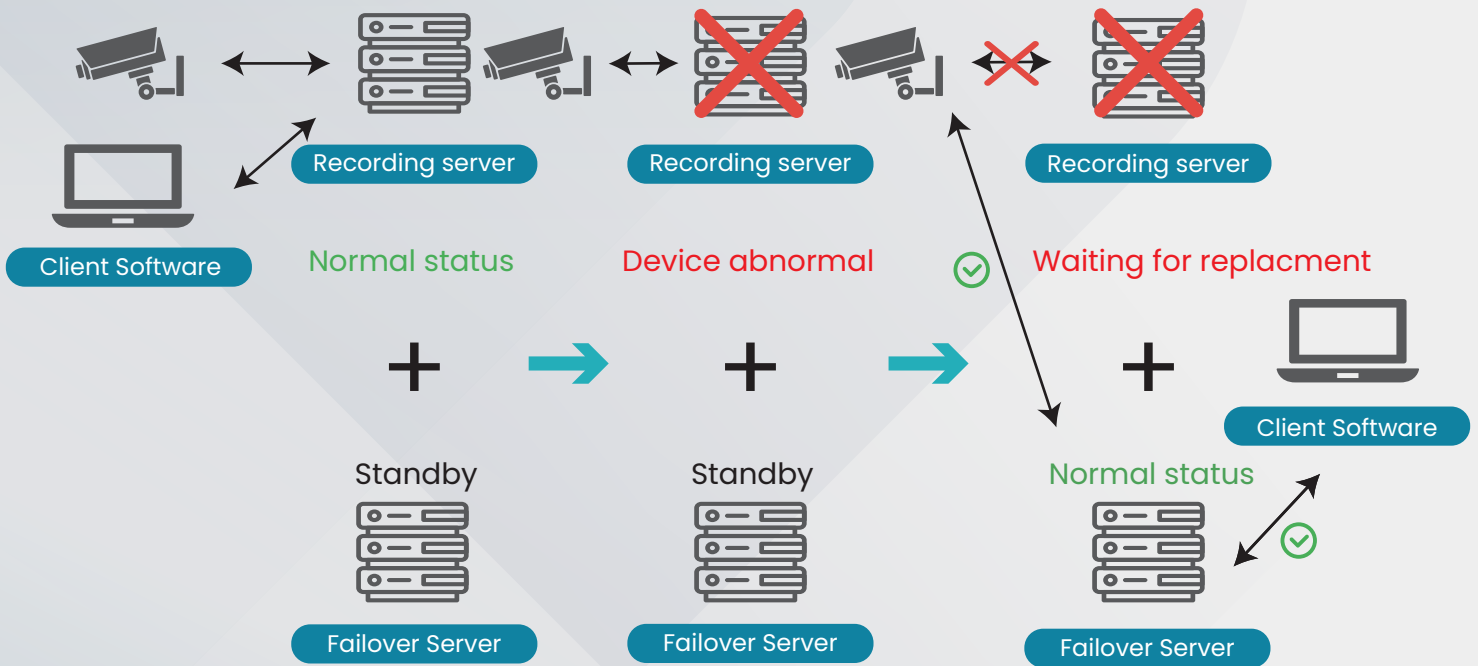




Failover

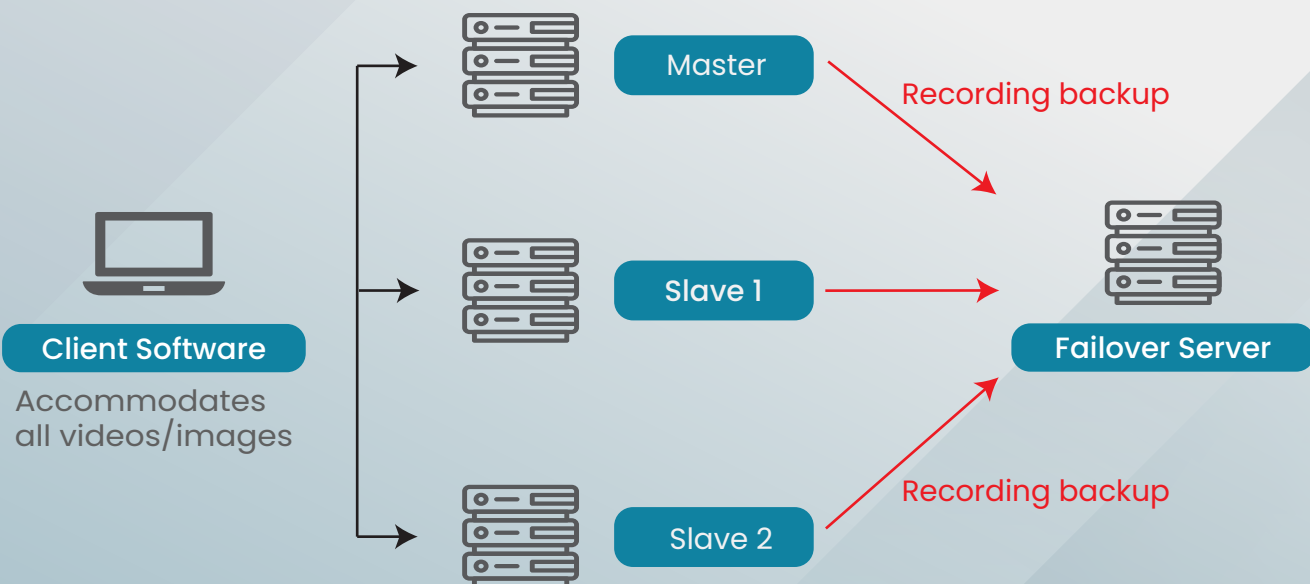
Standalone N+1

When the recording device malfunctions, the failover server will be activated and the recording function will not be interrupted.



Master/Slave N+1

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





Specification

AI Management

Image Recognition	<ul style="list-style-type: none"> - Human detection - Vehicle detection: car, motorbike, truck, bus, bicycle - Object detection - Density detection - Loitering detection - Cross-Line Detection - Cross-Line Counting 	<ul style="list-style-type: none"> - Smoke detection* - Fire detection* - Multi-Country License Plate Recognition* <ul style="list-style-type: none"> - 190 countries - 4526 models - 194 brands - 12 colors
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Platform Management

Dashboard	<ul style="list-style-type: none"> Basic analysis <ul style="list-style-type: none"> - Real-time analysis: people & vehicle flow, vehicle types (car, motorcycle, bicycle, truck, bus) - 5 Chart types (pie, bar, horizontal, line) - Exported (xlsx) 	<ul style="list-style-type: none"> Advanced analysis* <ul style="list-style-type: none"> - Multidimensional & BI analysis : people & vehicle statistics, customer (gender/age), heatmaps for people and vehicle - 8 Chart types (line, area, curved area, etc.) - Chart style (legend, text colors, data labels) - Exported (xlsx).
E-map	<ul style="list-style-type: none"> - Unlimited e-map layer - Unlimited device to map - View alarms on the map - Event pop-up 	<ul style="list-style-type: none"> - Rephase device position - Rephase device angle - Color-coded camera alarm status differentiation
Health Doctor	<ul style="list-style-type: none"> - AI function anomaly - Disconnection anomaly (camera, network) - Device anomaly (intercom, I/O module) 	<ul style="list-style-type: none"> - Hardware anomaly (host, hard drive) - CPU overload
Real-time Notifications	<ul style="list-style-type: none"> - E-mail 	<ul style="list-style-type: none"> - LINE* - Grouped, scheduled, content - Image (Interval 1-300 secs)
Access Monitoring*	<ul style="list-style-type: none"> - Real-time display of license plate - Access card number 	
Intercom Monitoring*	<ul style="list-style-type: none"> - SIP real-time two-way call - Video call - Emergency call alert 	

Vision Management

Compatibility	Compatibility Spark cameras, Omnieye cameras, 3rd party cameras	
Operating System	Win 11 IoT, Support for multi-monitor output	
Language	Chinese, English, Italian, Japanese, Spanish	
Video Compression	H.265, H.264, MJPEG	
Audio Support	Two-way audio (Client)	
Liveview	<ul style="list-style-type: none"> - Multi-stream management - Alarm Pop-up Window - Manual snapshot and recording 	<ul style="list-style-type: none"> - Supports embedding webpages into the layout. - PTZ control
Recording	<ul style="list-style-type: none"> - Continuous/scheduled recording - Event recording 	<ul style="list-style-type: none"> - Edge recover - Event pre/post recording
Playback	<ul style="list-style-type: none"> - Customizable layout - Instant playback - Synchronized playback - Date and timeline visualization - Manual Snapshot 	<ul style="list-style-type: none"> - Event playback - Playback speed controls <ul style="list-style-type: none"> - Fast forward: 1X, 1.5X, 2X, 4X, 8X, 16X, 32X, 64X, 128X - Fast forward slow playback: 0.125X, 0.25X, 0.5X - Rewind: 1X, 1.5X, 2X, 4X, 8X, 16X, 32X, 64X, 128X - Rewind slow playback: 0.125X, 0.25X, 0.5X
Export	<ul style="list-style-type: none"> - Export multiple video with selectable time range - Support MOV, MKV, MP4, AVI, Spark format - Support watermark 	
Certification	-CA	



Specification

Event & Alarm Management

Event Triggers	<ul style="list-style-type: none"> -Configurable based on device & schedule -AND/OR trigger conditions -Digital input -Camera analytics -AI analytics 	<ul style="list-style-type: none"> -System related events -User related events -Device and network related events -Third party events (LPR, eTag) -Receive Spark-Format HTTP Events
Event Actions	<ul style="list-style-type: none"> -Configurable alarm recipient & SOP -Recording (support pre/post recording up to 300 secs) -Digital output 	<ul style="list-style-type: none"> -Email & LINE* notification -HTTP event notification -PTZ preset -PTZ tour
Alarm Settings	<ul style="list-style-type: none"> -Configurable alarm workflow -Alarm trigger scheduling 	<ul style="list-style-type: none"> - Set alarm recipients
Alarm Reception	<ul style="list-style-type: none"> -Alarm management system -Client alert sound 	<ul style="list-style-type: none"> -Alarm record query database -Pop-up alarm event view

System management

User Privilege	-Configurable based on camera, function and schedule	
Camera Management	-Support basic camera settings	
Third-party Device Management*	<ul style="list-style-type: none"> -Supports 24GHz radar, which can be used in conjunction with cameras for perimeter protection. -I/O module -LPR Camera 	<ul style="list-style-type: none"> -eTag, RFID reader -LED display

Remark: Features marked with * are optional.