



# 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

## 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.



### Upgrade Analog to AI

Over 60% of cameras in the market are still analog. With this device, existing cameras can be easily upgraded to AI functionality without replacement.

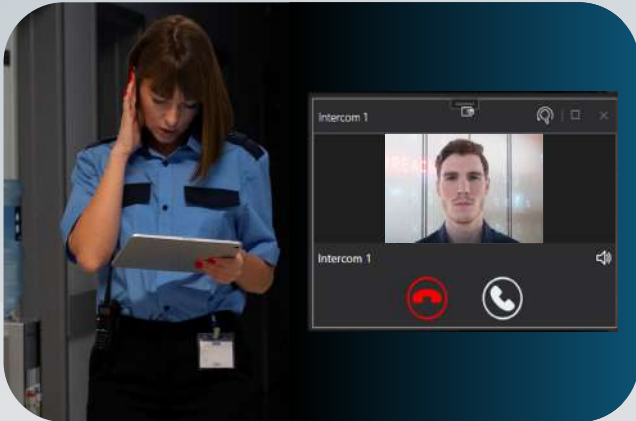


### Remote Monitoring

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

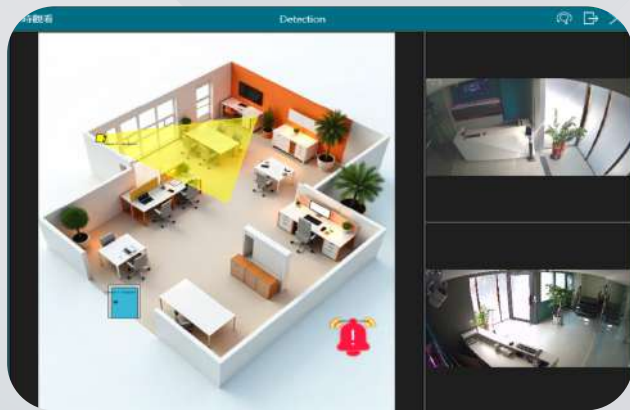


## Features



### 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

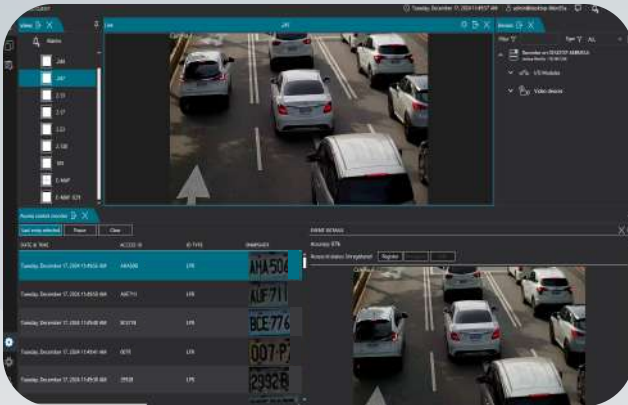
Integrates with Email and LINE to deliver instant event notifications, ensuring personnel stay informed and enabling timely remote intervention to mitigate risks.



### Health Doctor

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

## 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.



### Advanced User Management

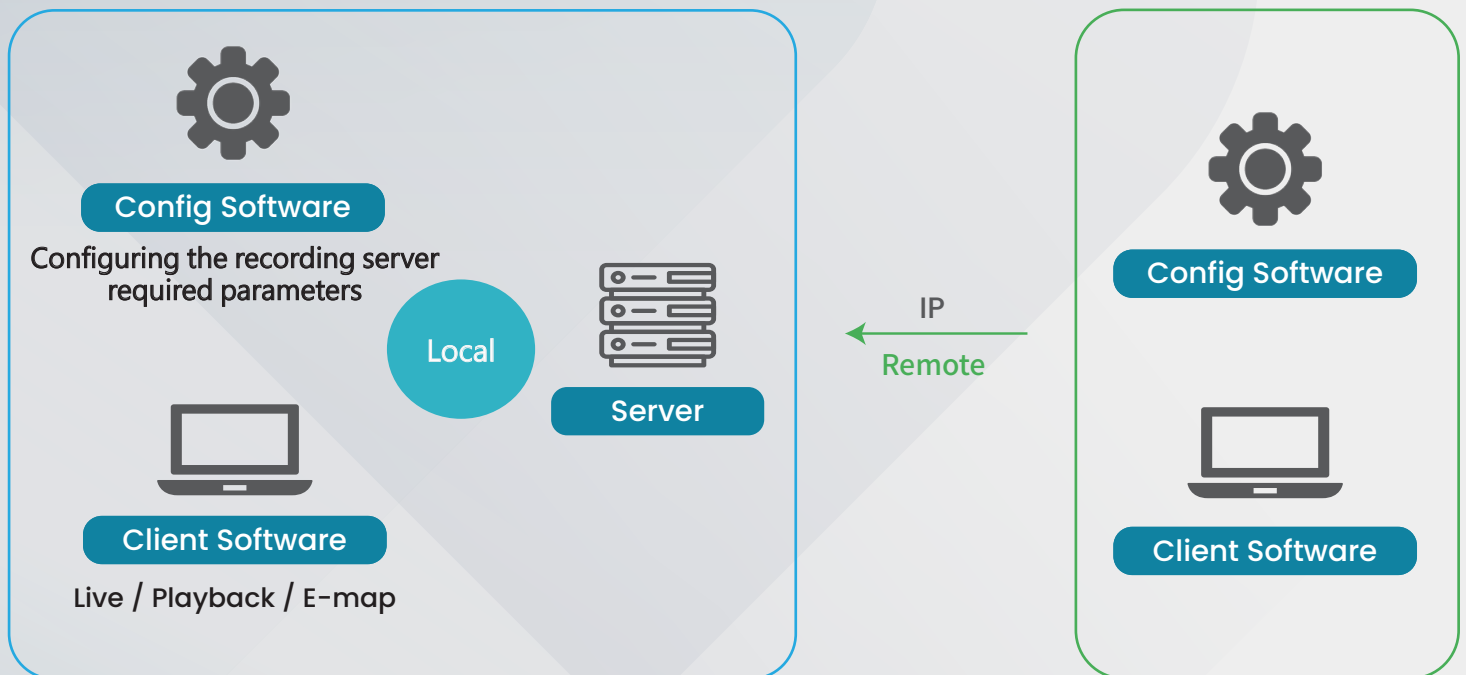
Administrators can adjust user permissions flexibly, saving settings to specific groups for quick application when adding new users, enhancing management efficiency.



## System

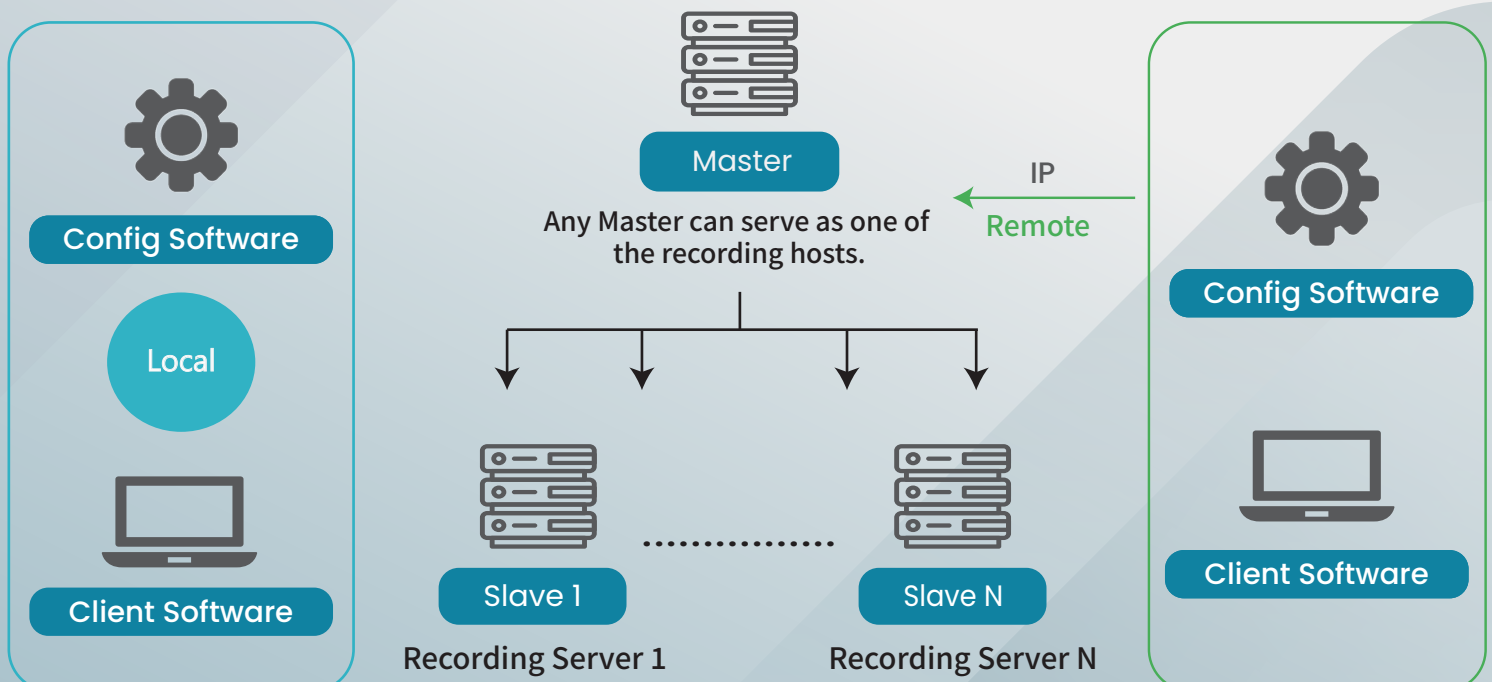
### Standalone

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.

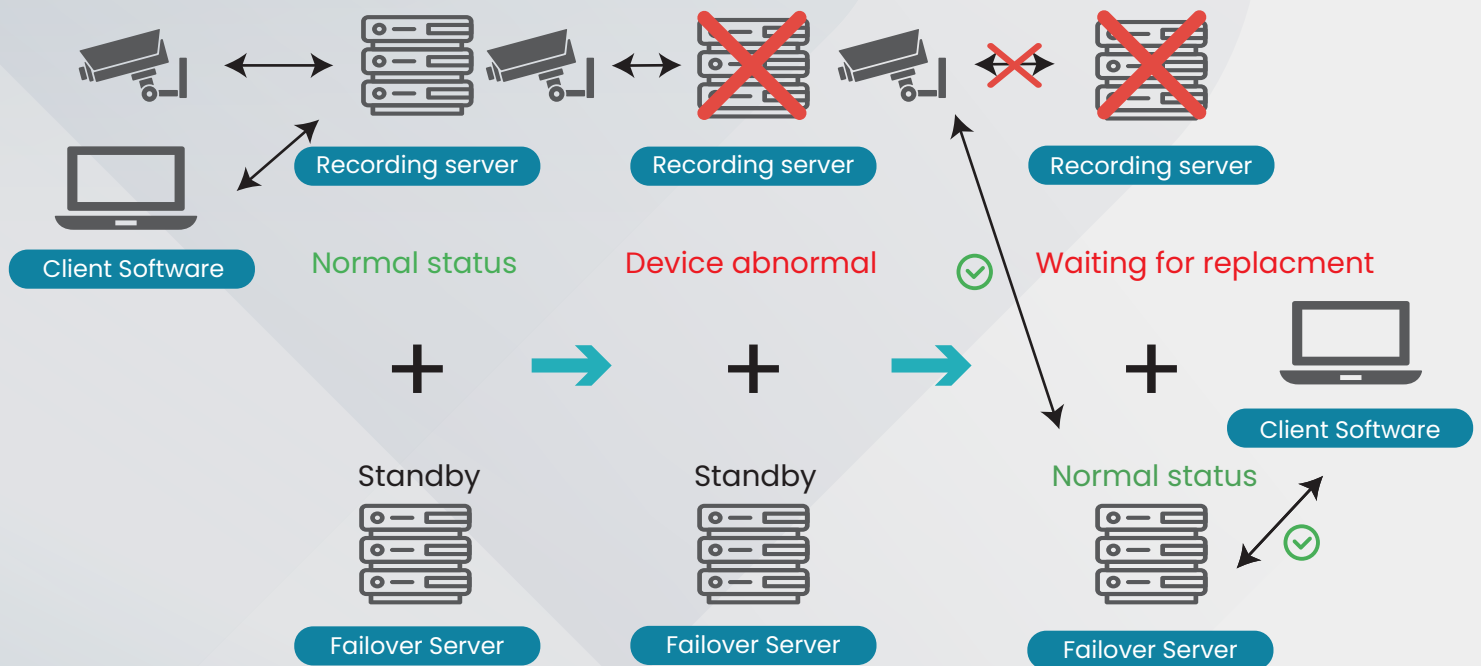




## Failover

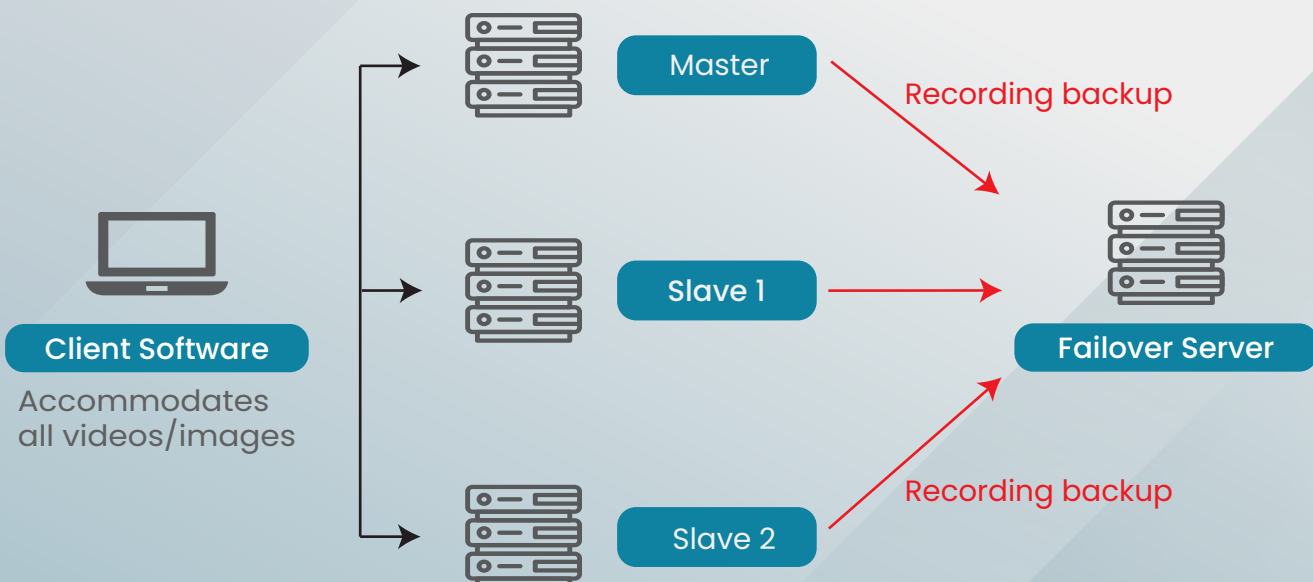
### Standalone N+1

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

Dashboard	<ul style="list-style-type: none"> <li>-Heatmap</li> <li>-Vehicle classification: car, motorbike, truck, bus, bicycle</li> </ul>	<ul style="list-style-type: none"> <li>-Counting(human, vehicle)</li> <li>-Charts(pie, bar, horizontal, line)</li> <li>-Exported (xlsx).</li> </ul>
E-map	<ul style="list-style-type: none"> <li>-Unlimited e-map layer</li> <li>-Unlimited device to map</li> <li>-View alarms on the map</li> <li>-Event pop-up</li> </ul>	<ul style="list-style-type: none"> <li>-Rephase device position</li> <li>-Rephase device angle</li> <li>-Color-coded camera alarm status differentiation</li> </ul>
Health Doctor	<ul style="list-style-type: none"> <li>-AI function anomaly</li> <li>-Disconnection anomaly (camera, network)</li> <li>-Device anomaly (intercom, I/O module)</li> </ul>	<ul style="list-style-type: none"> <li>- Hardware anomaly (host, hard drive)</li> <li>- CPU overload</li> </ul>
Real-time Notifications	<ul style="list-style-type: none"> <li>-E-mail</li> </ul>	<ul style="list-style-type: none"> <li>-LINE*</li> <li>-Grouped, Scheduled</li> <li>-Customized with content.</li> <li>-Image (Interval 1-300 secs)</li> </ul>
Access Monitoring*	<ul style="list-style-type: none"> <li>-Real-time display of license plate</li> <li>-Access card number</li> </ul>	
Intercom Monitoring*	<ul style="list-style-type: none"> <li>- SIP real-time two-way call</li> <li>- Video call</li> <li>- Emergency call alert</li> </ul>	

### 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"> <li>-Liveview</li> <li>-Customizable layout</li> <li>-Multi-stream management</li> </ul>	<ul style="list-style-type: none"> <li>-Event pop-up</li> <li>-Manual snapshot and recording</li> <li>-PTZ control</li> </ul>
Recording	<ul style="list-style-type: none"> <li>-Continuous/scheduled recording</li> <li>-Event recording</li> </ul>	<ul style="list-style-type: none"> <li>-Edge recover</li> <li>-Event pre/post recording</li> </ul>
Playback	<ul style="list-style-type: none"> <li>-Customizable layout</li> <li>-Instant playback</li> <li>-Synchronized playback</li> <li>-Date and timeline visualization</li> <li>-Manual Snapshot</li> </ul>	<ul style="list-style-type: none"> <li>-Event playback</li> <li>-Playback speed controls <ul style="list-style-type: none"> <li>-Fast forward: 1x, 1.5x, 2x, 4x, 8x, 16x, 32x, 64x, 128x</li> <li>-Fast forward slow playback: 0.125x, 0.25x, 0.5x</li> <li>-Rewind: 1x, 1.5x, 2x, 4x, 8x, 16x, 32x, 64x, 128x</li> <li>-Rewind slow playback: 0.125x, 0.25x, 0.5x</li> </ul> </li> </ul>
Export	<ul style="list-style-type: none"> <li>-Export multiple video with selectable time range</li> <li>-Support MOV, MKV, MP4, AVI, Spark format</li> <li>-Support watermark</li> </ul>	
Certification	-CA	

Remark: Features marked with \* are optional.



## Specification

### Event & Alarm Management

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

### System management

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

Remark: Features marked with \* are optional.