

VLM-Powered Edge AI Server



Up to 400 TOPS of AI computing power
Real-time processing of video data locally
Deep search and cross-source video analysis



Search Detail

Location: Library Entrance
Attributes: White T-shirt / Blue Jeans
Status: **Needs Review**
Info: Wearing a white T-shirt with blue Jeans
Tags: Person White Shirt Blue Jeans



*Must be used with the Argo AI VMS.

Core Features



Visual Search

Pinpoint targets in seconds using attributes



Data Indexing

Cross-source data integration & analytics



Deep Recognition

Unlock deep insights from every frame.



Smart Alerts

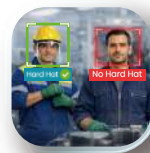
Instant critical alerts.

Applications



Traffic

Identify vehicle attributes & summarize traffic events.



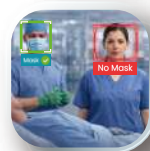
Construtin / Industrial

PPE safety & compliance auditing.



Campus

Ensure student safety & track lost belongings.



Healthicare / Hospital

Compliance monitoring for hygiene & safety.

Features



High-performance NPU

Embedded Kneron NPU with up to 400 TOPS for real-time on-premise video analytics, reducing energy use by 30% while ensuring privacy and data security.



AI Data Indexing

Syncs multi-host AI data, converting cross-camera and cross-site metadata into structured indexes for accurate correlation.



Deep Recognition

Powered by Argo AI and VLM video understanding for precise object and context detection, enabling fast target identification and anomaly detection (e.g., moved fire extinguisher) for smart decision-making.



Visual Search

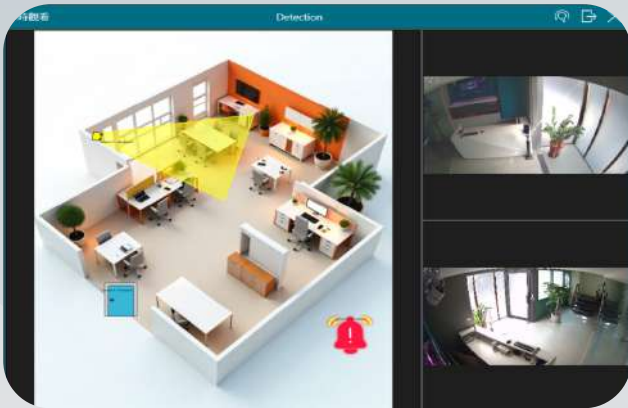
Supports image search and feature extraction (color, PPE), quickly locating anomalies from large-scale data for simplified analysis.





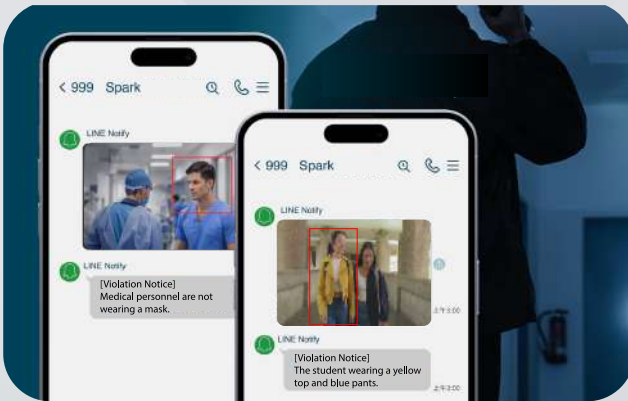
spark
Italian inSight

Features



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.



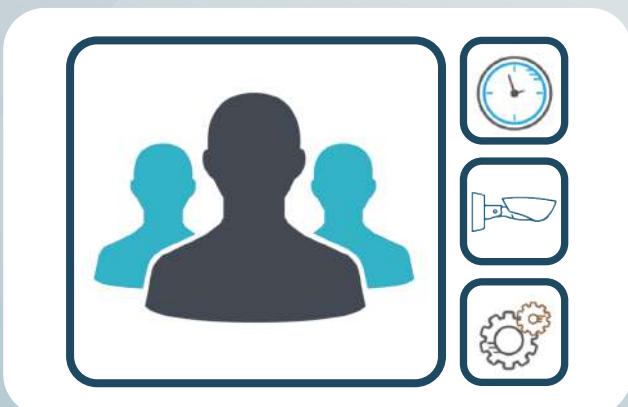
Real-time Notification

Supports real-time notifications via email and communication apps (e.g. LINE), enabling managers to stay updated on events and take quick action to mitigate



Health Doctor

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

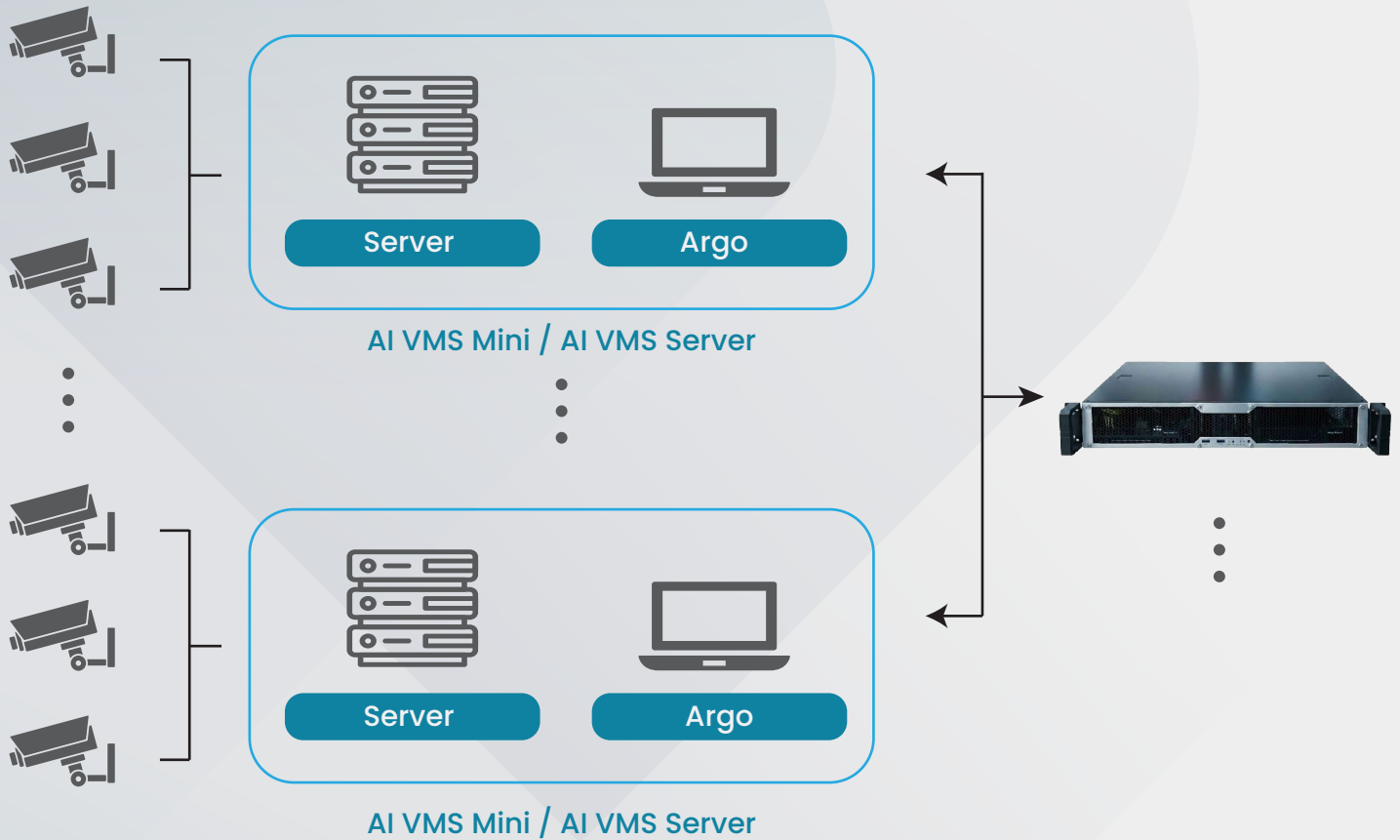


Advanced User Management

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



Architecture



Specification

AI Management

Applicable	32-128 channels
Person Appearance	- Tops, Pants, Headwear, Eyewear, Carrying - Supports 10+ color detection
Targeted Object Analysis (Image Search)	- Industrial and Medical PPE - Special vehicles (ambulances, fire trucks) - Vessels *Users can freely upload reference images.
Advanced Analytics	Fire and smoke detection
Video Understanding	Automatic extraction of scenarios and behaviors



Server

Model	SR-VLM-330-V2 (KNEO330 plus)
AI Accelerator	Kneron™ embedded NPU
Computing Power	Total 400 TOPS
Memory	32 GB DDR-4 3200 MHz
Storage	2TB NVMe SSD
Operating System	Ubuntu Linux
I/O port	Front: USB 2.0 x2 , Rear: USB 3.2 Type-A x4/Type-C x1
Network	RJ-45 Gigabit Ethernet x1
Accessories	Rack Mount Ears
Power Supply	100-240V 50/60Hz, Max 850W
country of origin	Made in Taiwan
Dimensions	428 x 350 x 89mm (Rack mount 2U)
Certification	NDAA / CE / FCC / BSMI
Operating Temp	0°C ~ 40°C

*This host must be used with Argo AI VMS platform to achieve full AI performance.

