

# 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

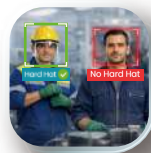
Instant critical alerts.

## Applications



### Traffic

Identify vehicle attributes & summarize traffic events.



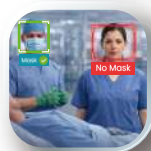
### Construtin / Industrial

PPE safety & compliance auditing.



### Campus

Ensure student safety & track lost belongings.



### Healthcare / 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.



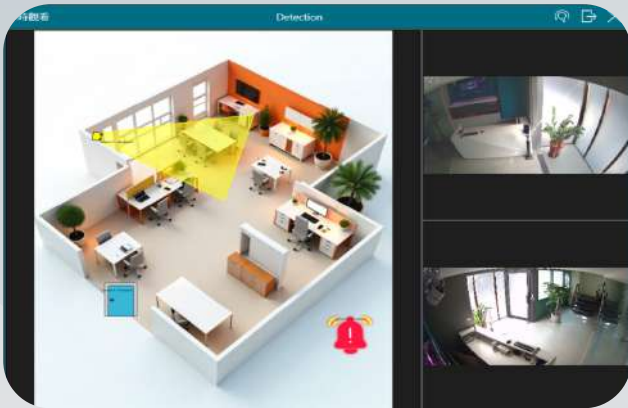
### Visual Search

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



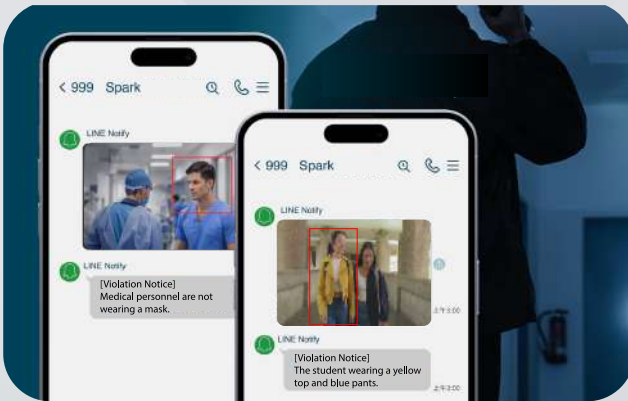
spark  
Italian inSight

## 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.



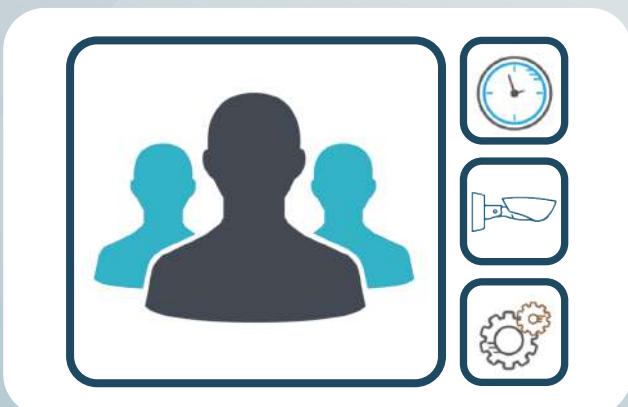
### Real-time Notification

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.

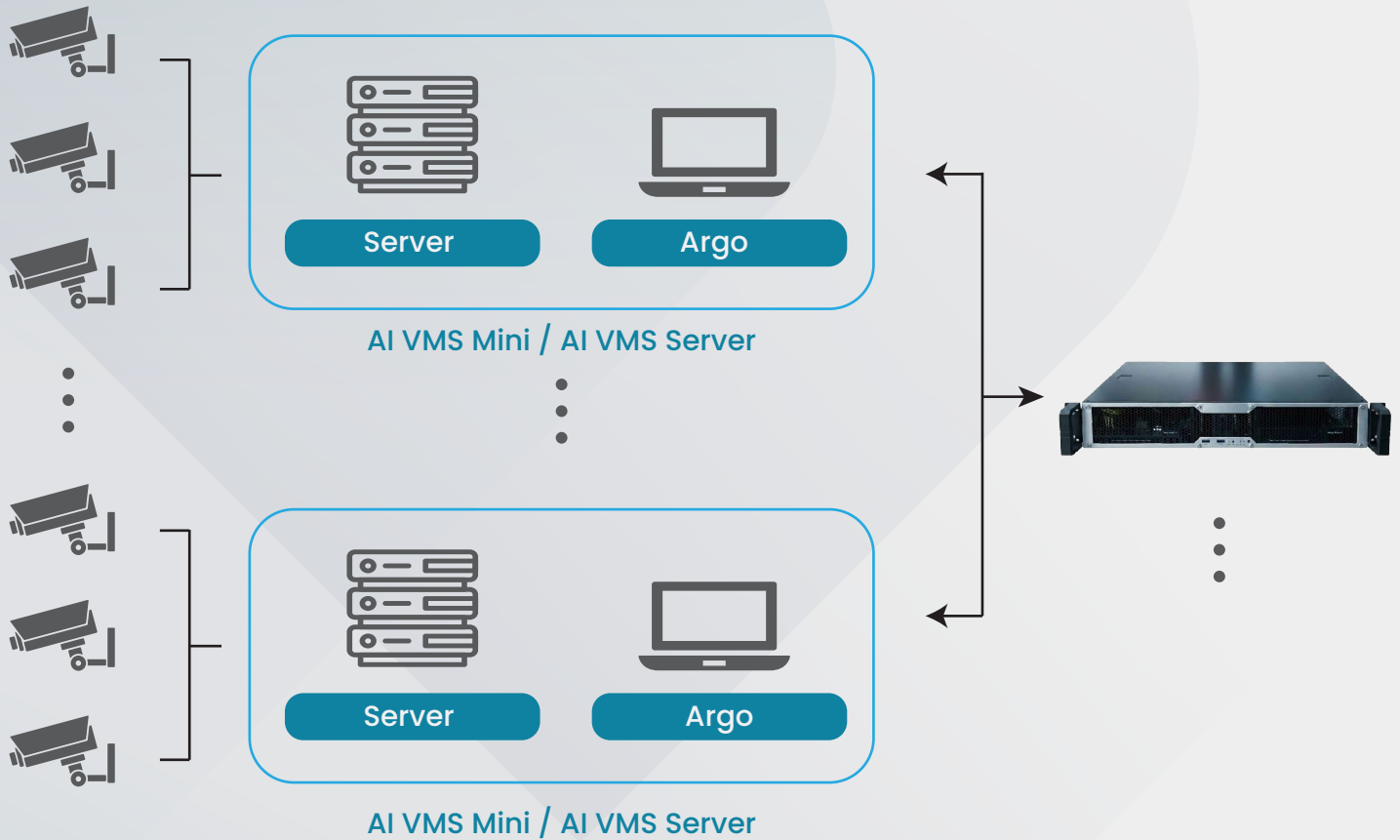


### Advanced User Management

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.

