

# NVA

Nota Vision Agent

# NVA (Nota Vision Agent)

## A Generative AI-Powered Vision Agent

NVA (Nota Vision Agent) is a Vision-Language Model (VLM)-powered surveillance solution that autonomously perceives and understands on-site situations. It instantly detects and analyzes potential hazards from real-time video streams, dramatically enhancing safety management efficiency across industries.

### Nota Vision Agent

One Agent. Any Domain.

#### Industrial Safety : PPE & Coworking

Monitor safety compliance, such as wearing PPE or collaboration rules



#### Industrial Safety : Forklift Collision Risk

Monitor the risk of collisions or accidents in the workplace



#### ITS : Traffic Accident Report

Discover a traffic accident and create a step-by-step report in real time



#### Smart City Surveillance

Detect public order issues or illegal dumping



#### Smart Building Security

Detect security or safety issues in the building



#### Retail Security

Detect security or safety issues in the store



# Key Features

## Real-time Contextual Scene Understanding



- Enables proactive awareness and accurate detection of previously unseen anomalies
- Delivers instant alerts to enable swift response and prevent accidents

## Automated Prompt-driven Intelligence



- Defines detection scenarios through natural language prompts
- Supports intuitive video search and auto-generated reports, reducing manual workload


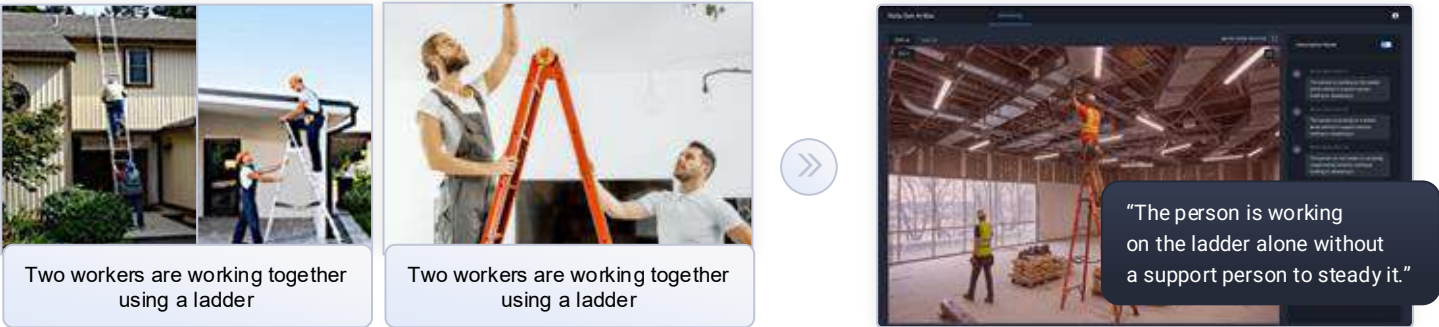
## Edge-oriented Execution



- Processes video data entirely on-site, ensuring privacy and compliance
- Delivers low-latency inference on resource-constrained hardware

# Technical Capabilities

## Combined Strengths of CV and VLM

	Detection Methodology	Strengths
CV	 <p>Ladder</p> <p>Person</p>	<ul style="list-style-type: none"><li>High-speed, high-precision detection of trained objects</li><li>Reliable for repetitive, rule-based detection tasks</li></ul>
VLM	 <p>Two workers are working together using a ladder</p> <p>Two workers are working together using a ladder</p> <p>"The person is working on the ladder alone without a support person to steady it."</p>	<ul style="list-style-type: none"><li>Interprets complex situations and environmental context</li><li>Ideal for behavior and judgment-based detection</li></ul>

**Proficient in Both CV and VLM**, Nota AI Delivers Optimal Solutions Tailored to **Each Customer's Needs**



# Technical Capabilities

# Scenario-Based Model Application

#1

## Well-Defined Object Detection



Detecting hazardous elements with distinct characteristic in specific areas

Both **CV** and **VLM** Appropriate

#2

## Requiring Value Judgement



Analyzing and predicting potential damage levels or spread areas based on current condition

VLM Required

#3

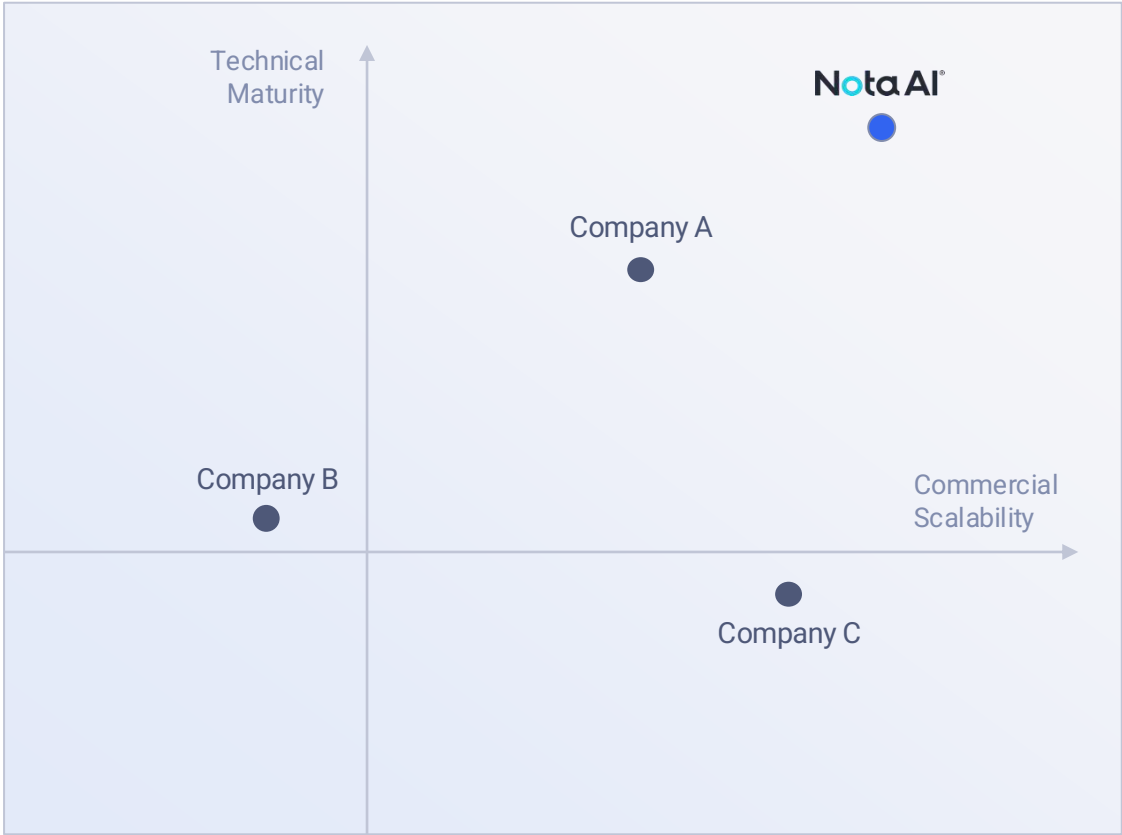
## Behavior-Based Hazard Detection



Identifying potential risks such as SOP violations, negligence, and unsafe actions to proactively prevent incidents

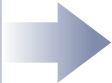
Competitive Advantage

Market Positioning



Evaluation Criteria

- \* **Technical Maturity:** Expertise in developing and deploying diverse Vision AI models
- \* **Commercial Scalability:** Proven ability to deliver end-to-end solutions from PoC to full-scale production



Evaluation Criteria		Nota AI	A	B	C
Technical Maturity	VLM Capability	✓	△	✗	✗
	Vision Model Versatility	High	Limited	Low	Limited
	Edge Deployment	✓	△	✓	✗
Commercial Scalability	Commercial Deployment	High	High	High	Limited
	End-to-End Delivery	✓	△	△	✗
	PoC-to-Production	✓	✓	✓	△

Legend

- ✓ Available

✗ Not available

△ Partial
- High: Multiple commercial deployments

Limited: Few deployments

Low: PoC-level only

## Competitive Advantage

## Key Differentiators



### Multi-Model Vision AI Expertise

Ability to develop and deploy vision AI models—including VLM and CV—in the most effective combination for each scenario.



### Edge Deployment Capability

Designed to operate reliably within constrained hardware and network environments, powered by proprietary AI compression and optimization technologies.



### Proven End-to-End Delivery Experience

Validated through commercial deployments, scaling from PoC to full production systems.

# Customer Benefit



## Achieving High Detection Performance

- Combines various vision AI technologies to address a wide range of detection requirements
- Customizes model configurations based on site-specific characteristics and detection complexity



## Maximizing Business Productivity

- Compatible with existing CCTV and video management systems without the need for additional equipment purchases
- Can be applied on-site within 2–3 weeks without complex pre-training



## Improving Operational Efficiency

- Reduces administrative workload with features such as automated analysis reports and video search
- Enables efficient personnel allocation through automated CCTV monitoring



# NVA In Action

## Real-Time Monitoring

The screenshot displays the NVA Real-Time Monitoring interface. On the left, a sidebar titled '실시간 모니터링' (Real-time Monitoring) contains a '현재 목록' (Current List) section with a search bar and a list of camera feeds. The main area shows four camera feeds of a warehouse, each with a timestamp and a status indicator. A red alert banner at the bottom right indicates a hazard detection.

**Searchable List of Hazard Detection Zone and Channels**

**Real-Time Hazard Alerts**

- Enables proactive safety measures through integrated real-time alerts
- Allows monitoring personnel to respond immediately to detected hazards

**Alert Message:** 출고 대기장 2번 카메라에서 PPE 미착용(안전모)이 검지 되었습니다. (2025-02-15 12:49:01)

# NVA In Action

# Dashboard



# NVA In Action

# Rule Setting

The screenshot displays the 'Industrial Safety' dashboard with a sidebar on the left and a main configuration area on the right. The sidebar, titled 'All List', contains a search bar and a list of rules: 'NVA\_01\_PPE' (Action Violation Detection Rule), 'PPE Safety Rule', 'NVA\_02\_Forklift' (Forklift Violation Detection Rule), and 'Forklift Violation Detection Rule'. A red arrow points from the 'List of Detection Tasks' text to the sidebar. The main area shows the configuration for 'NVA\_01\_PPE - Action Violation Detection Rule'. It has two tabs: 'Basic settings' and 'ROI settings'. The 'Basic settings' tab is active, showing fields for 'Cropping Padding' (5), 'Crop type' (People), 'Number of Image sequence' (0), and 'Frame drop' (0). A red arrow points from the 'Video Analytics Setting' text to the 'Basic settings' tab. The 'ROI settings' tab is also visible, showing 'Assistant Detection ROI'. A red arrow points from the 'Monitoring Specific Hazard Zone' text to the 'ROI settings' tab. The 'Prompt settings' section is visible at the bottom, containing a text prompt for analyzing CCTV footage. A red arrow points from the 'Add or Edit Detection Rules' text to the 'Prompt settings' section.

**List of Detection Tasks**

- Easily search existing rules

**Video Analytics Setting**

**Monitoring Specific Hazard Zone**

- Allows setting customizable zones for focused analysis of collected video and images

**Add or Edit Detection Rules**

- Define detection rules using natural language prompts
- No coding required

# NVA In Action

# Incident Search

## Search Specific Incident

- Search specific events by applying filters from all collected footage
- Supports natural language search
- Eliminates the need for manual review of all footage

The screenshot displays the NVA Incident Search interface. At the top, there are filters for time range (2025-02-24 ~ 2025-03-10), site (전체), event (전체), and risk level (전체). Below these are buttons for '정렬: 최신순' and '최신순'. A table lists incidents with columns for time, site, camera, event, risk level, and status. One incident is highlighted: '2025-01-17 19:50:01' at '출고 대기장' with '2번 카메라' showing a '컨베이어 벨트 침입' (conveyor belt intrusion) with a '경고' (warning) risk level and '확인' (confirmed) status. To the right, a detailed view of this incident is shown, including a video player with a play button and a photo of the warehouse floor.

일시	사이트명	채널명	위험 이벤트	위험 레벨	확인 상태
2025-01-17 19:50:01	출고 대기장	1번 카메라	건설기계 충돌 예방	위험	미확인
2025-01-17 19:50:01	출고 대기장	2번 카메라	컨베이어 벨트 침입	경고	확인
2025-01-17 19:50:01	출고 대기장	1번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	자게차 이동통로	1번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	출고 대기장	3번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	피킹 작업존	2번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	입고 처리구역	4번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	출고 대기장	4번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	자게차 이동통로	2번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	출고 대기장	2번 카메라	안전모 미착용	주의	확인
2025-01-17 19:50:01	입고 처리구역	3번 카메라	안전모 미착용	주의	확인

**컨베이어 벨트 침입**

발생 정보

일시: 2025-01-17 19:50:01

사이트명: 출고 대기장

채널명: 2번 카메라

위험 레벨: 경고

확인 상태: 확인

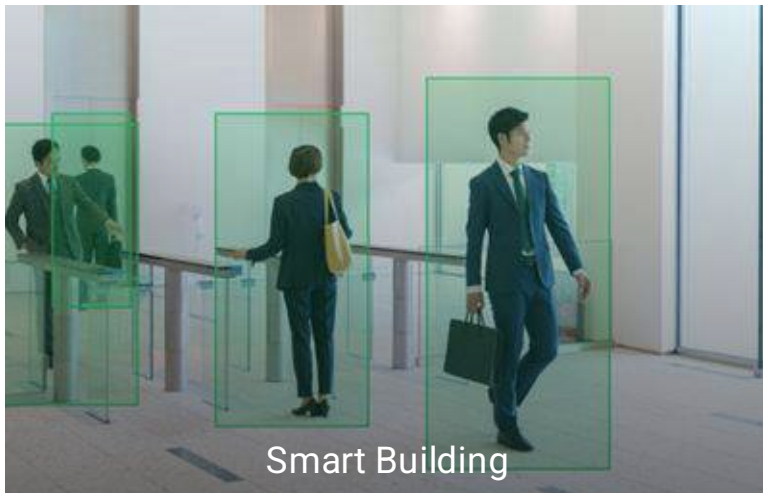
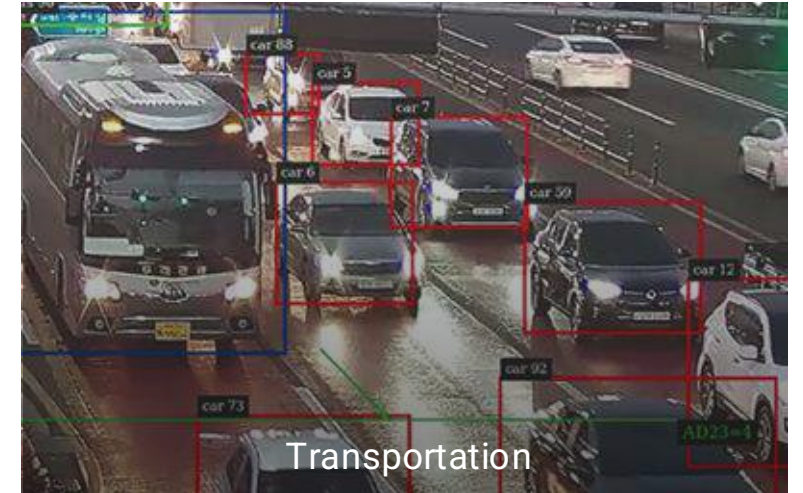
비고: 작성된 내용이 없습니다.

이벤트 확인

검지 기록



# Applicable Industries





Use Cases

Industrial Safety

Chemical & Textile Manufacturer “K”

Challenge

Problem 01

Traditional monitoring systems lack the ability to interpret complex worker behaviors

Problem 2

Personal protective equipment (PPE) violations and unsafe behaviors often go unnoticed until incidents occur

Solution

**Equipment Interlock**  
as a potential safety mechanism to halt machinery in hazardous zones

**SOP Compliance Monitoring**  
detects violations such as improper cleaning, incorrect loading, and floor-level repackaging through VLM-powered analysis

Result

**Proactive Accident Prevention**

Proactively detects and blocks human error-based hazards, preventing accidents at the source

**High SOP Compliance Accuracy**

Achieved F1 Score of 85+ for SOP compliance accuracy across all tested tasks



Use Cases

Surveillance

Municipal Government "G"

Challenge

Problem 01

Illegal dumping is difficult to monitor consistently across widespread public areas

Problem 2

Smoke and burning activities often go undetected until fire incidents escalate

Solution

Edge-deployed NVA

detects smoke and burning activities to prevent fire incidents in real-time

Contextual video intelligence

identifies illegal dumping behaviors that traditional monitoring systems miss

Result

Enhanced Public Safety Response

Improved response efficiency for public safety incidents

Privacy-Compliant Monitoring

Enabled consistent monitoring while maintaining strict privacy and data governance compliance



Use Cases

Transportation

UAE Roads and Transport Authority

Challenge

Problem 01

Rapid detection of road incidents is critical across vast highway networks with high-speed traffic

Problem 2

Cloud-dependent systems pose challenges in latency, operational costs, and data security compliance

Solution

VLM-powered NVA

detects road incidents and anomalies in real-time directly on edge devices

On-device processing

ensures minimal latency while maintaining strict data privacy and security standards

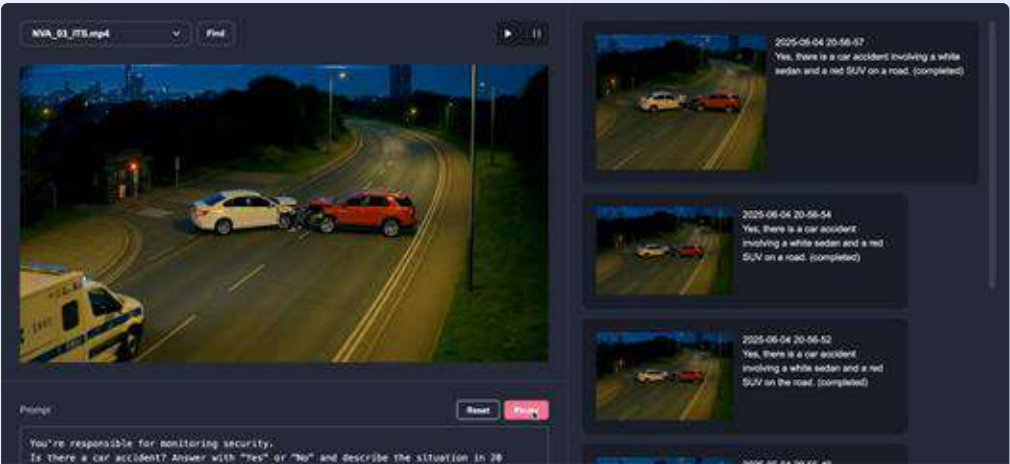
Result

High Incident Detection Accuracy

Achieved 95%+ accuracy in road incident detection during PoC validation

Operational Cost Efficiency

Reduced cloud dependency, lowering operational costs while enabling real-time response



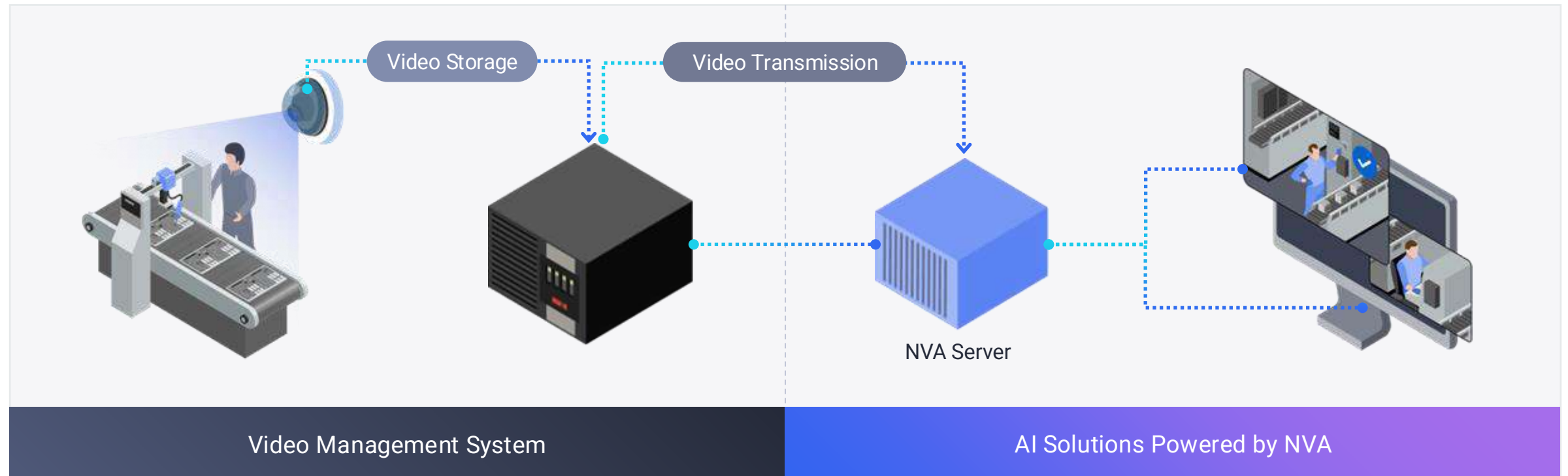
# Pipeline

## No additional equipment required

Easily integrate by connecting the 'NVA server' to existing video management systems.

## Within just 2–3 weeks

NVA can be rapidly implemented in the field within just 2–3 weeks, without complex pre-training processes.



# Nota AI

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