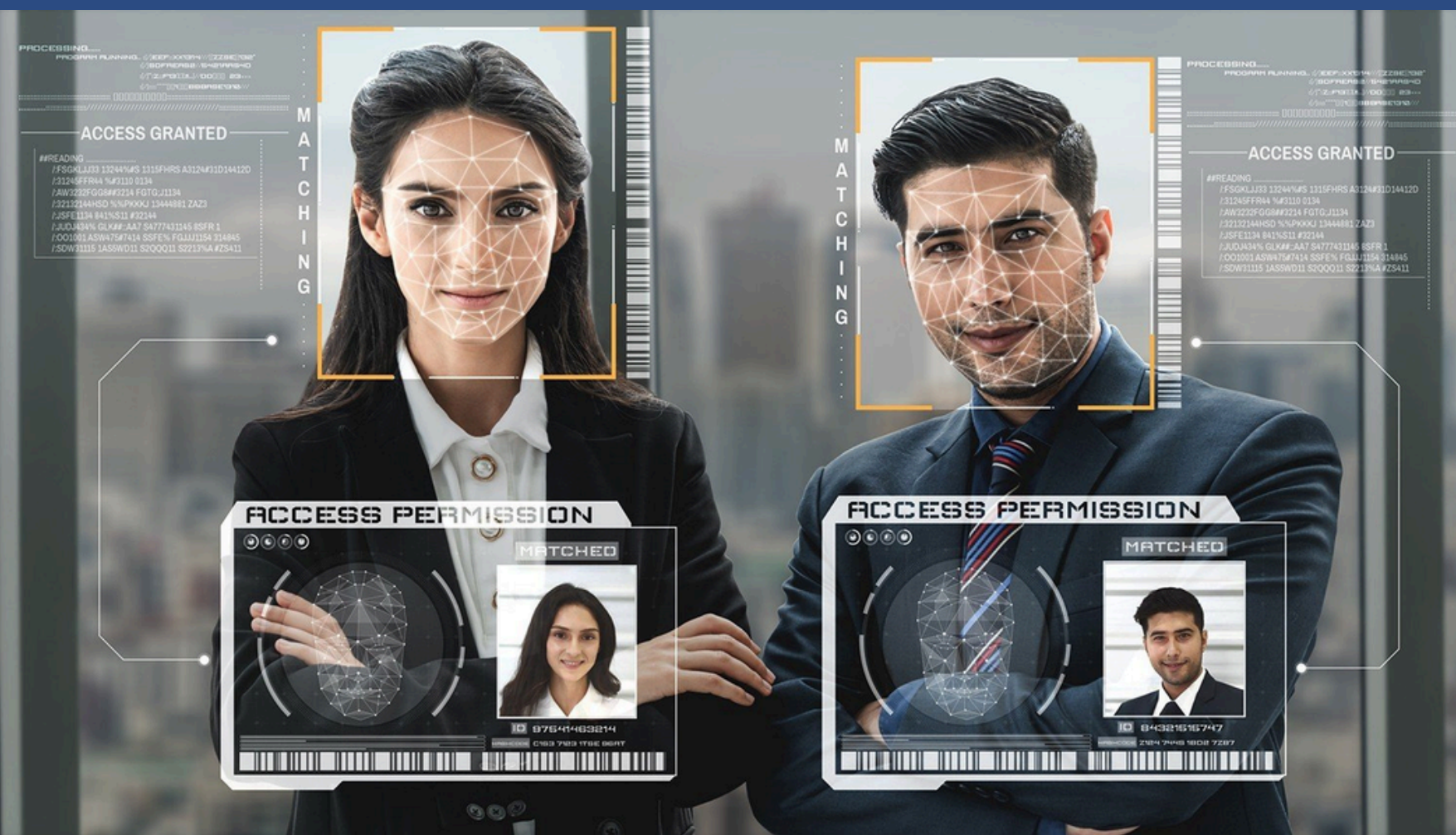




AI SECURITY MONITOR

## Enterprise Intelligent Security & Surveillance Platform

A modern security control room showing multiple screens with AI bounding boxes overlaying video feeds, or a sleek abstract visualization of facial recognition technology.



# Executive Summary

- AI Security Monitor is a state-of-the-art enterprise security platform that bridges the gap between traditional video surveillance and advanced artificial intelligence.
- Designed for government agencies, corporate enterprises, and high-security facilities, our solution integrates real-time video monitoring with high-performance facial recognition, document verification (OCR), and license plate detection (LPR). We empower organizations to automate access control, enhance situational awareness, and manage identity data with unprecedented accuracy.





# KEY FEATURES - SURVEILLANCE & RECOGNITION

## 1. Real-Time Video Surveillance

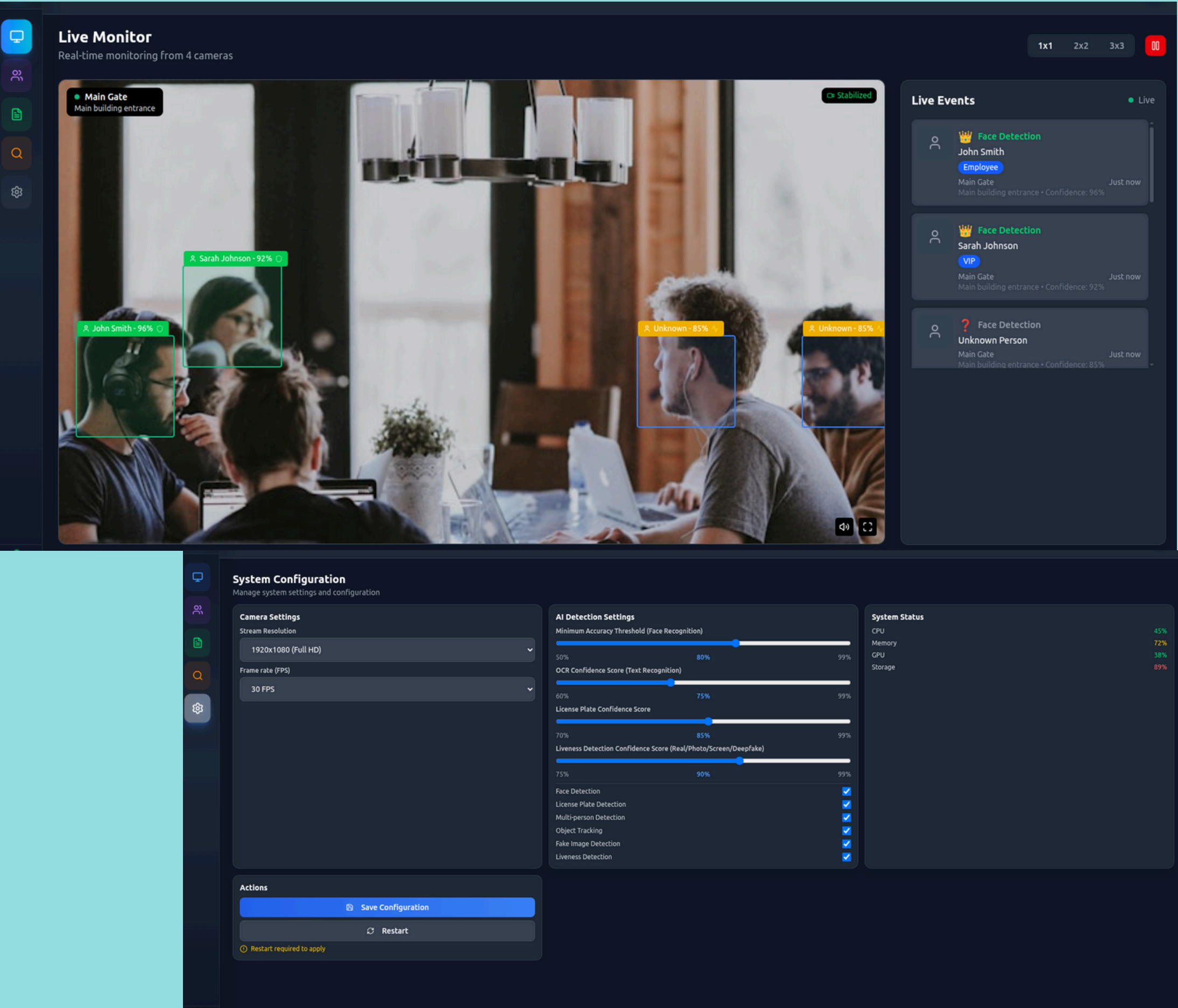
Gain total visibility over your premises with our low-latency streaming engine.

- Multi-Camera Grid: Monitor multiple IP cameras simultaneously with flexible 2x2 or 3x3 layouts.
- Live AI Overlay: Visualize AI in action with automatic bounding boxes around detected faces and vehicles in real-time.
- Universal Compatibility: High-quality streaming via RTSP and WebRTC protocols.
- Health Monitoring: Instant status tracking (Online/Offline) for all connected devices.

## 2. Advanced Facial Recognition

Industry-leading accuracy for identity management and access control.

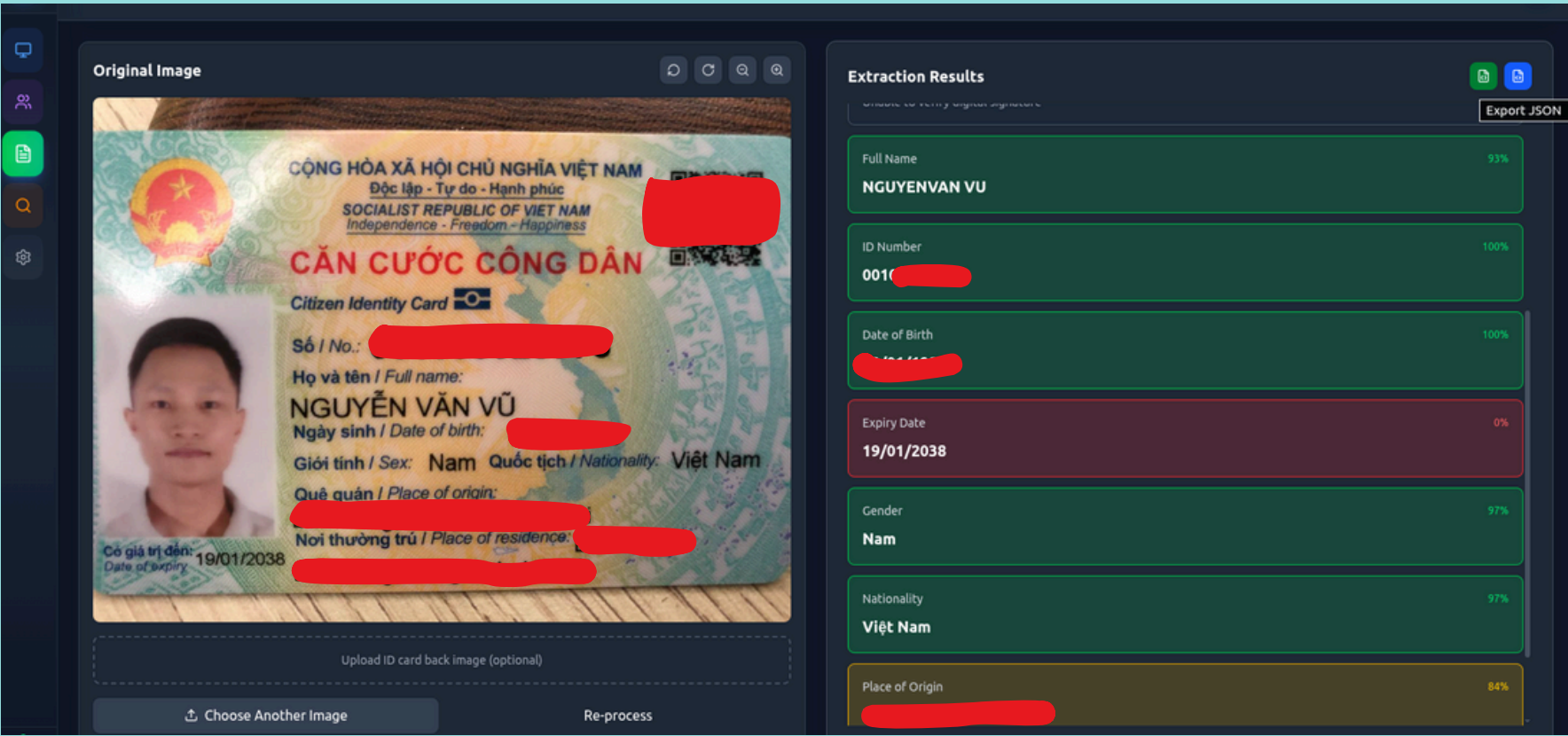
- High-Fidelity Matching: Instant identification against your registered database with visible confidence scores.
- Smart Profiles: Manage distinct groups including Employees, VIPs, Visitors, and Blacklisted individuals.
- Multi-Face Enrollment: Enrol multiple reference photos per person to ensure high accuracy across different angles and lighting.
- Intruder Detection: Automatically flag and alert on "Unknown" individuals not found in the database.



# KEY FEATURES - OCR & LPR

## 3. Intelligent Document Processing (OCR)

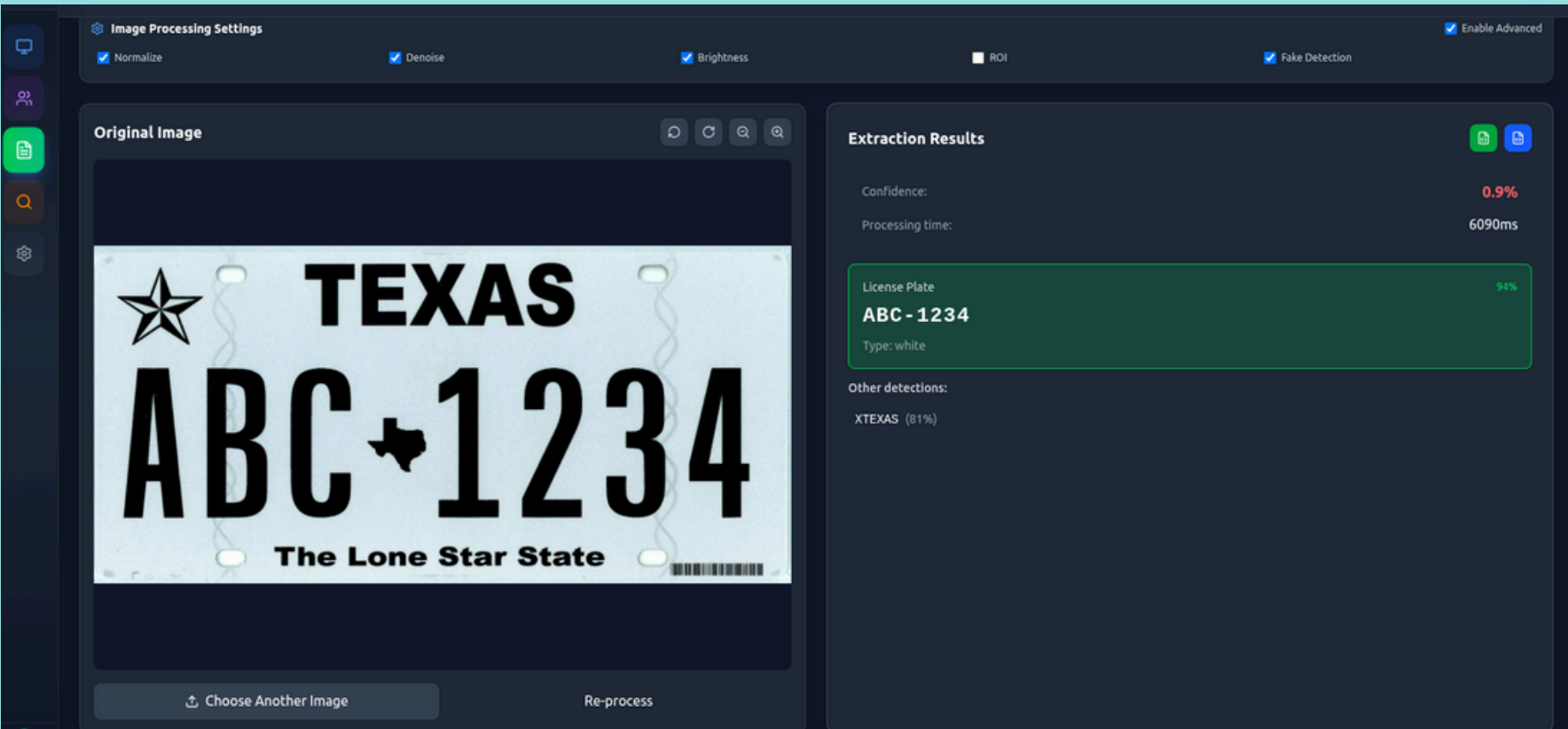
- Automate data entry and verification with deep-learning-based Optical Character Recognition.
- ID & Passport Parsing: Automatically extract full name, DOB, ID number, issue dates, and address from National ID cards and Passports (MRZ).
- Vietnam Specific Support: Optimized for Vietnamese language characters and document formats.
- Face Matching Fraud Detection: Automatically crop the portrait from the ID document and compare it with the live camera feed to prevent identity fraud.
- Data Export: Seamless export to JSON/XML for integration with 3rd party systems.



## 4. License Plate Recognition (LPR/ANPR)

Streamline vehicle access and parking management.

- Automated Entry: Real-time reading of license plates from video feeds to trigger barriers or gates.
- Multi-Format Support: Accurately recognizes various plate designs and dimensions.
- Confidence Scoring: Each detection includes an accuracy metric to ensure reliability.



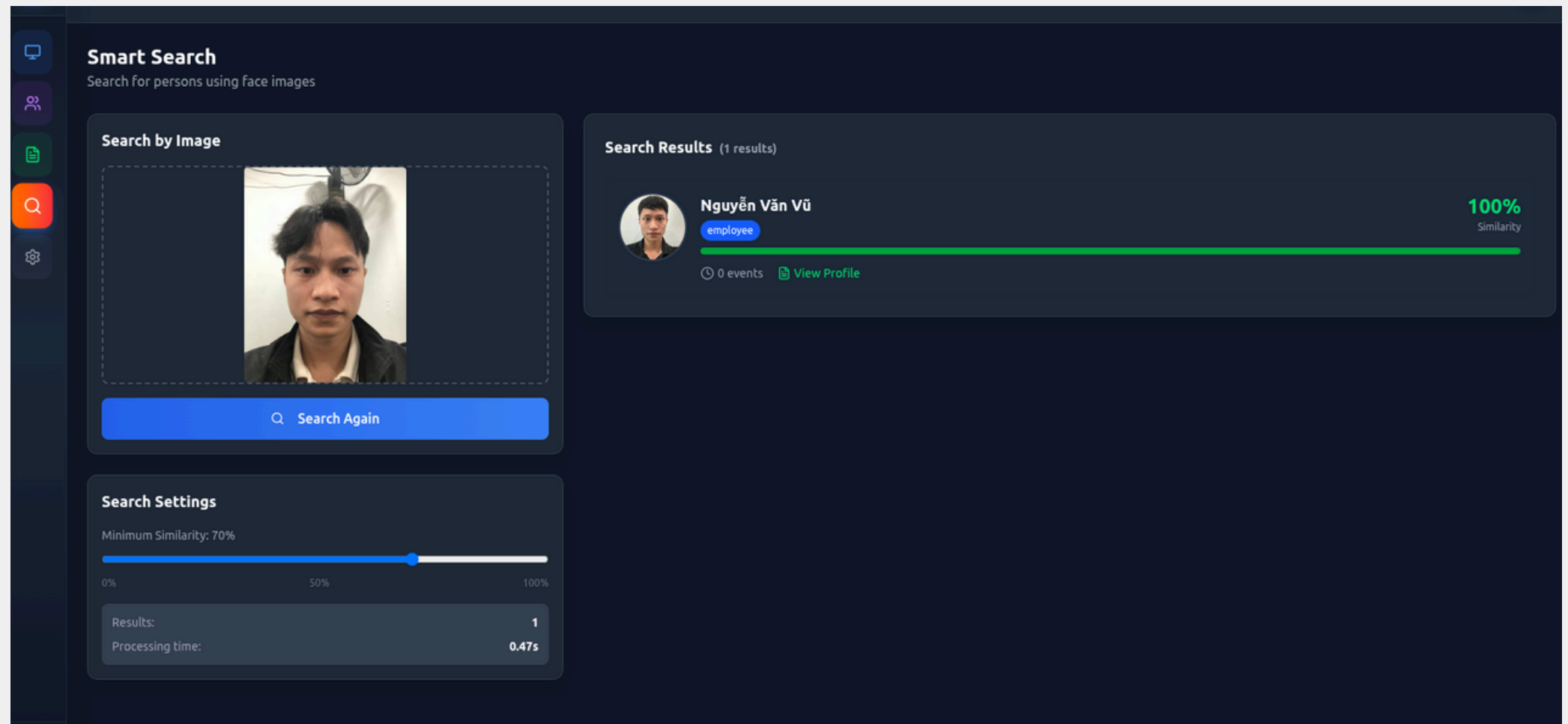


# 5. Smart Search & Analytics

Turn raw video data into actionable business insights.

- Face-Based Search: Upload a photo to instantly find every time that person appeared across all cameras.
- Timeline Tracking: View a chronological history of a person's movements within the facility.
- Heatmaps: Visualize high-traffic areas and detection density.
- Visitor Statistics: Dashboard views

for total events, daily summaries,  
and unique visitor counts.





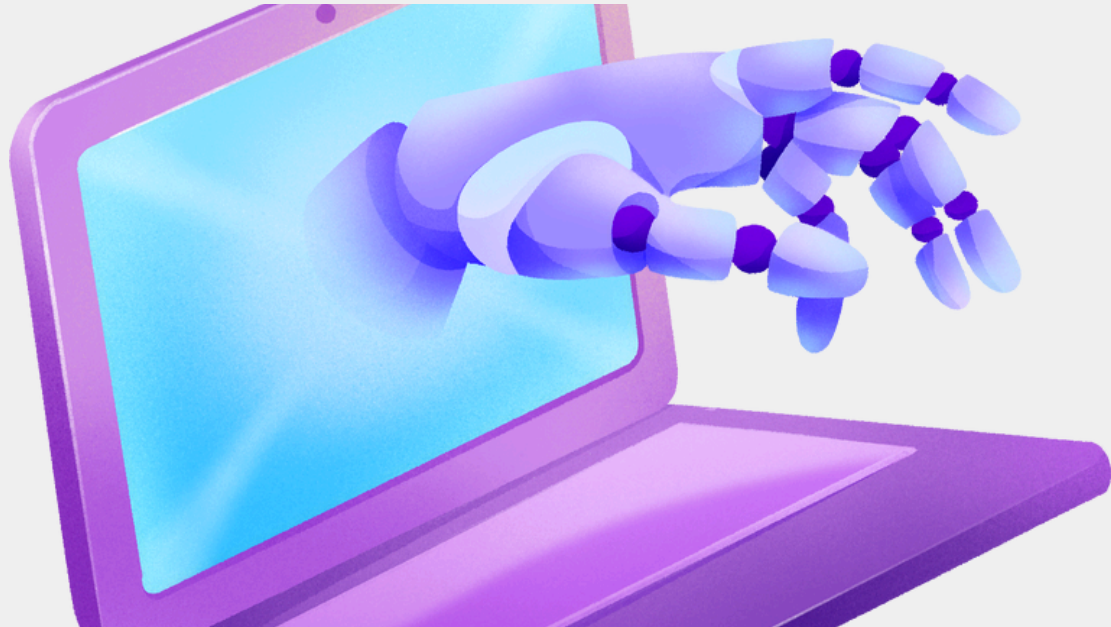


## 6. Event & Alert Management

Proactive security through real-time responsiveness.

- Instant Notifications: WebSocket integration delivers push alerts the moment an event occurs.
- Blacklist Alerts: Immediate warnings when security threats or banned individuals are detected.
- Rich Event Logging: Every event is stored with timestamps, confidence scores, snapshot images, and short video clips.





# Technical Specifications

## System Architecture

- Backend: Robust RESTful API (Golang/Python)
- Frontend: Modern, responsive Web Interface (React/Vue)
- Database: PostgreSQL for data integrity; Redis for high-speed caching
- Storage: Scalable Object Storage for images and video evidence

## AI & Security

- Face Engine: Deep learning neural networks for feature extraction.
- Security: JWT-based authentication, Role-Based Access Control (RBAC), and HTTPS/TLS encryption.
- Integration: Full OpenAPI/Swagger documentation, WebSockets, RTSP/ONVIF support.






## Hardware Requirements (On-Premise)

- |                            |            |  |
|----------------------------|------------|--|
| • Component                |            |  |
| • Minimum Config           |            |  |
| • Recommended (Production) |            |  |
| • CPU                      | 8 Cores    | 16+ Cores                              |
| • RAM                      | 16 GB      | 32+ GB                                 |
| • Storage                  | 500 GB SSD | 2 TB+ NVMe                             |
| • GPU                      | N/A        | NVIDIA GPU (Required for high-load AI) |



# USE CASES & CONTACT

## Industry Applications

-  Corporate Offices: Employee timekeeping and unauthorized access prevention.
-  Government: Checkpoint verification and person-of-interest tracking.
-  Retail: VIP customer recognition and loss prevention.
-  Transport & Logistics: Automated parking and driver verification.
-  Healthcare: Patient tracking and restricted area control.

## Support & Maintenance

We ensure your system runs at peak performance.

- Included: System installation, user training, standard business-hour support, and security patches.
- Optional: 24/7 dedicated support, custom API integration, and hardware procurement.