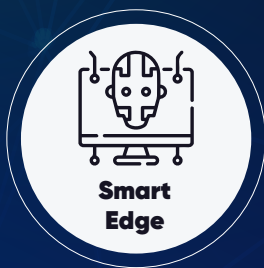VinAi

Intelligence for Tomorrow, Today!

Established in 2019, VinAI is the world's top 20 AI research-based company with a myriad of practical research projects. VinAI's headquarters are located in Hanoi (Vietnam) with additional locations in Ho Chi Minh City, the United States, and Australia. Bringing together almost 200 high-profile researchers and engineers, VinAI sets to transform its state-of-the-art AI research technology into products and services that solve real-world problems.

VinAI is currently led by AI/Machine Learning and Mobility Experts from Google DeepMind, Adobe, Stanford Research Institute, Bosch, Audi, Volkswagen, Toyota, DARPA Urban Challenge, Monash University, CMU, and the University of Oxford.

PRODUCTS

Smart Edge

One of two product divisions of VinAI.
Smart Edge focuses on embedded AI Solutions for Safety, Convenience and Efficiency.
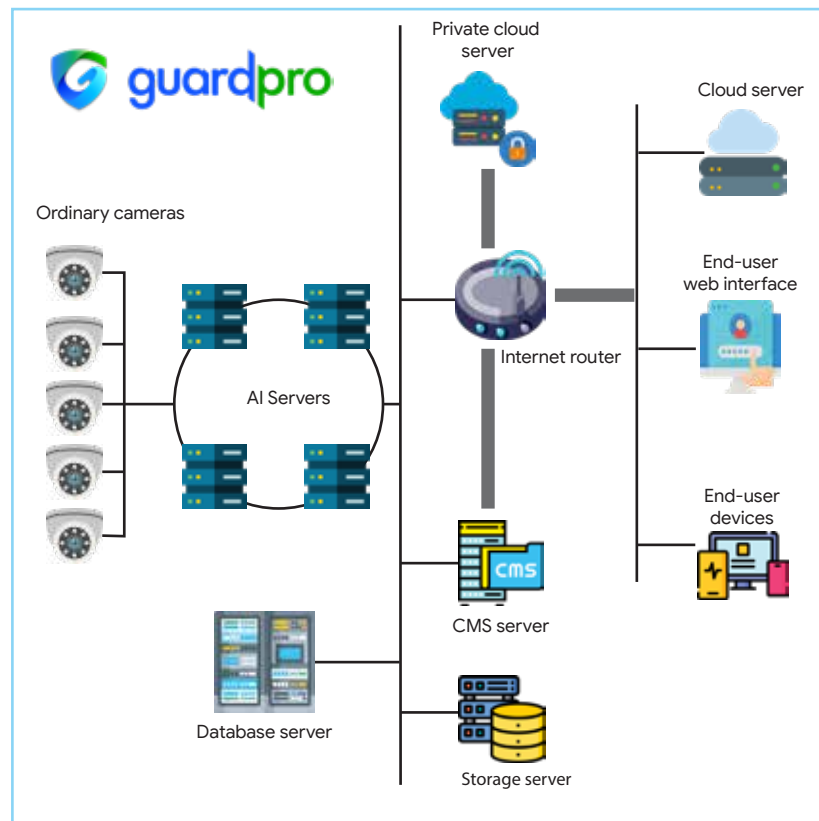
Our offices and Technology Hubs

Europe

Silicon Valley, USA

Hanoi, Vietnam

HCM City, Vietnam

Melbourne, Australia

Our Solution for Smart Cities

guardpro

Security, Surveillance, Compliance, and Convenient Enhancement AI Solution

Real-Time Guard and Alerts
Make any camera smart

- A set of embedded AI algorithms running on edge servers & a content management system.

- GuardPro can turn individual and ordinary cameras into a wholistic AI system, that provides constant and real-time monitoring for your properties. GuardPro works 24/7 and it is more reliable and cheaper than human operators.

guardpro

Private cloud server

Cloud server

Ordinary cameras

AI Servers

Internet router

End-user web interface

CMS server

End-user devices

Database server

Storage server

Our Value Proposition

State-of-art
AI Algorithms

#20
on Industrial Research Lab Ranking

#6
on NIST Ranking for Face Recognition
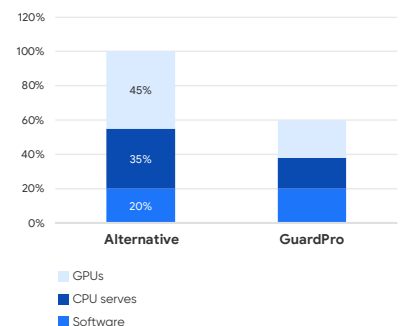
#2
on Masked Face Recognition Ranking

Self-Improving models

ACCURACY

TIME

- Initial release
- Final release
— VinAI
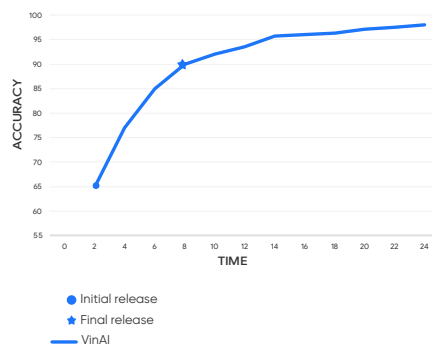
Hardware Cost Reduction

Alternative	GuardPro	

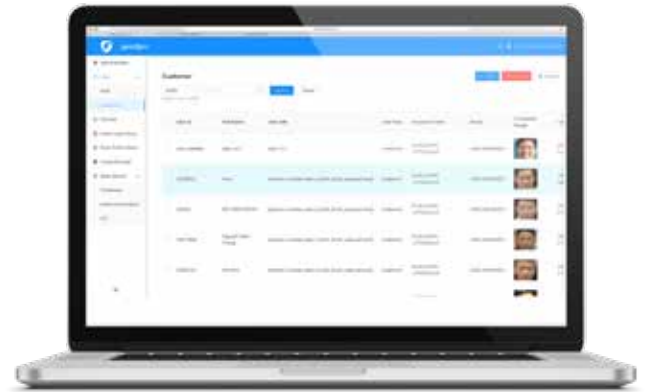45%
35%
20%

GPUs
CPU serves
Software

Key Features

🖥️ GuardPro Content Management System (CMS) Centralized Intelligence Dashboard

- Authentication
- Admin
- System monitoring
- Enrollment
- Deployment
- Event
- Camera management used for deployment

CHANGE THE SCREEN

🔲 AI Features

Safety	Compliance	Convenience & Well-being
• Face Recognition for Access Control • Blacklist/Whitelist Detection • Intruder Detection • Person Reidentification • Fence Jumping Detection • Violence Detection • Harassment Detection • Kidnapping Detection • Loitering Detection	• Parking Violation Detection • Face Mask Policy Violation Detection • Abandoned Item Detection • Unallowed Object Placement • Detection • Bulky Object Detection in Elevator • Pet Detection	• Vehicle Localization by license plate number • Available Parking Spot Localization • Convenient Access to swimming pools and playgrounds without carrying resident cards • Fall/Unconsciousness Detection

🔲 Smart Stream and Hardware Optimization Features

Smart Steam
End-to-end solution for optimization AI cost.

Automatically updates AI model based on usage history.

Hardware
Partnered with:

Qualcomm   **AMD**

Partners feedbacks:
Smart Edge & VinAI

"The biggest difference is that VinAI's solution allows for processing 9000+ camera streams with just one server, providing customers with a cost-effective solution while still ensuring the desired quality."

Mr. Binh Tran - Commercial Lead, AMD

"VinAI's GuardPro solution handles thousands of camera streams, enables mass AI deployment with reasonable cost on both TCO and Opex. This uniqueness motives many Service Providers to provide rich AI features to their customers, that brings AI technology closer and affordable to daily life."

Mr. Nam Thieu - General Director, Qualcomm Vietnam & Indochina

Our Case Studies

Vinhomes TMDM Smart City

Vinhomes is the largest commercial real estate developer in Vietnam.
Smartcity – Tay Mo Dai Mo Vietnam – 280 ha.

Key benefits from GuardPro:

- GuardPro SmartStream optimized CAPEX via **saved 30%** (~1M USD) on infrastructure investment.
- GuardPro SmartStream optimized OPEX via **reduced over 30%** power consumption.
- 9000 camera streams Implement 9 AI features for Security, Compliance & Convenience Enhancement and real-time notification to CMS.

Access Control for Vinhomes buildings

Using facial recognition to unlock doors and gates and track time and meal shifts at Vinhomes.

Key benefits from GuardPro:

- Operating at Vinhomes with more than **150,000 users.**
- On-premises server - improves **safety** and **security.**

VFace Pass on phone and TV

Face Identification on Vsmart phone, Vsmart TV.
Use modern facial recognition technology for stable efficiency, higher accuracy than existing technologies.
Advanced features: Masked face identification, Anti-spoofing with single RGB camera.

Key benefits from GuardPro:

- Operating on **8 Vsmart phone lines**: seven for the Vietnam market, one for the Russian market.
- Used by more than **1 million Vsmart phone users** with a rating of 4.5 stars.