VinAI

INTELLIGENCE FOR TOMORROW, TODAY

VinAI Company Profile

https://www.vinai.io/

About Us

VinAI (under Vingroup) is an AI company, with a focus on automotive technologies. We set out to transform efficient AI R&D into practical and scalable solutions that enhance industries and everyday experiences.

Led by industry experts from Renesas, Renault, and other global firms, we combine deep AI knowledge with industry experience to deliver scalable, high-performance solutions for global OEMs. VinAI is headquartered in Hanoi, Vietnam, with a presence in Ho Chi Minh City.

Vision

▶ Making AI accessible to everyone

Mission

▶ Transform efficient AI R&D into practical and scalable solutions that enhance industries and everyday experiences

Core Values

1 Value Creation
The purpose, belief and motivation in creating products and choosing what fit the people & the company.

2 Innovation
The ability to create new oppotunities with the strategic vision.
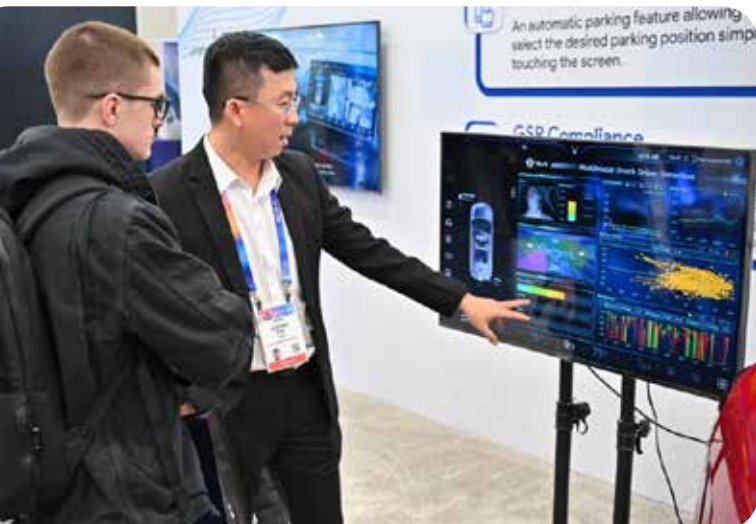
3 Now
What we are doing has to catch up & stay ahead, everything has to happen in the real time.

4 Agility
Our ability to adapt to change quickly & efficiently.

5 Integrity
In a personal choice associated with ethics.

VinAi

Our Achievements

Awards

80K+	**Ship-to-market cars with our tech***
800K+	**Vehicles set for shipment**
08	**Different car models**

*as of Feb 2025

Recognized by Global Partners & Media

Confidential Tier 1   Confidential EU-based OEM   VINFAST   Qualcomm

VINHOMES   FPT   Deloitte.   Forbes

THE GLOBE AND MAIL   CES   LIVESCIENCE   Automotive World est. 1992

Our Milestones

2022

Jan: Debut at CES
VinAI made the first in-person debut of its Smart Mobility product suite at CES 2022.

Sep: AI Award
VinAI's Driver Monitoring System (DMS) was honored with the AI Award 2022 by the Ministry of Science and Technology in collaboration with VnExpress.

2022

2024

Jan: CES Award
MirrorSense, the world's first AI-driven automatic mirror adjustment technology received the CES Innovation Award.

Jan: Integration with Snapdragon Digital Chassis
VinAI announced the successful integration of its smart mobility solutions into the Snapdragon Digital Chassis platform.

2024

2024

Aug: Deloitte Recognition
VinAI was recognized as an "Beacon of Innovation" in the Edges of Southeast Asia 2024 report by Deloitte.

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Our Milestones

2024

Oct: DrunkSense Debut in Europe
DrunkSense, the world's first AI-powered drunk driving detection system, made its European debut at InCabin & AutoSen 2024.

Oct: AutoTech Breakthrough Award
VinAI's Touch2Park solution was named "Smart Parking Innovation of the Year" at the AutoTech Breakthrough Awards 2024.

2024

2024

Dec: Global Patents
By the end of 2024, VinAI had filed for a total of 19 global patents, including 2 granted in Vietnam and 2 in the United States.

Jan: Real In-car Demo at CES
VinAI showcased DrunkSense and Touch2Park in real in-car demos for the first time at CES 2025. DrunkSense was also highlighted by The Globe and Mail as a standout road safety technology.

2025

2025

Mar: DrunkSense - AI Excellence Award
DrunkSense won the 2025 Artificial Intelligence Excellence Awards by the Business Intelligence Group for its innovative approach to preventing drunk driving.

VinAI - Your Trusted Partner

VinAI is an AI company with a focus on smart mobility technologies. With a robust portfolio of AI-powered automotive technologies, VinAI empowers OEMs to address diverse industry challenges, from meeting regulatory requirements to improving driver safety and comfort, all while optimizing resources.

▶ REGULATION COMPLIANCE

InteriorSense   GSR phase 1 - 2021/1341 DDAW
SurroundSense   NHTSA FMVSS 111 & UN ECE R158

▶ INNOVATION

We have developed award-winning, world's first features developed at lightning speed, including **DrunkSense, MirrorSense, Touch2Park, JellyView**, focusing on updates via software enhancements or AI model innovations. Then, OEMs can integrate latest AI solutions with minimal or no additional hardware cost.

▶ COMPATIBILITY

- Portable with different platforms & systems, **adaptable to vehicles of all price ranges**. Featuring multiple camera placement options (Steering Column, Instrument Cluster, Center Stack, Rear View Mirror).
- **Available on the most popular SoCs** in the automotive field, such as NVIDIA, Qualcomm, Renesas, or Ambarella.

▶ ACCURACY

Our AI model ranked **6th in NIST 2020**. Independent benchmark by an EU Tier 1 supplier confirms our solution **equals the performance of the world's top 2 DMS suppliers**.

![VinAi logo] **VinAi**

Smart MOBILITY

Our Product Portfolio

With our next-gen mobility solution that combines in-car monitoring and surrounding sensory systems, we are transforming the automotive industry by making driving a safer and more comfortable experience for everyone.

InteriorSense

This high-performance, ready-to-use in-cabin solution leverages AI to analyze behavior patterns and provide real-time alerts.
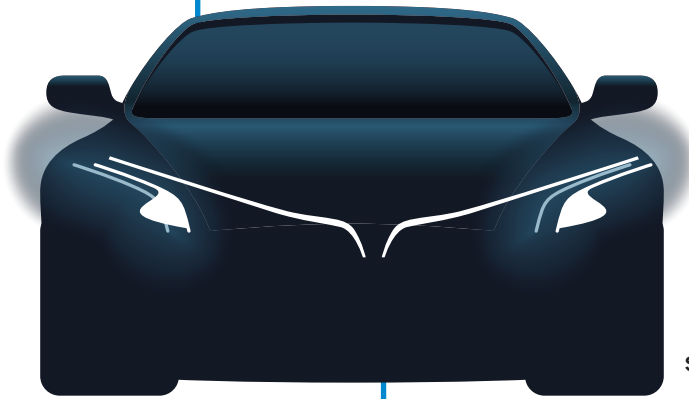
Our multi-camera system eliminates all blind spots for safer, easier maneuvering in any driving environment.

SurroundSense

Driver & Occupants Monitoring Systems (DOMS)

Advanced Surround View Monitoring System & Jelly View

MirrorSense - Automatic Mirror Adjustment

JellyView - Car Undercarriage See Through

Phone Usage Detection

Rear Parking Assist

Face Recognition (Anti-Spoofing)

Image Enhancement in Low Light, Bad Weather

DrunkSense - Passive Drunk Detection System

Touch2Park - Level 2 Smart Parking

AR HUD (Augmented Reality Head-Up-Display)

Memorized Parking Assist - Level 3 Smart Parking

Child, Pet, Object Left Behind Detection

360 Security - Safeguard Your Parked Car

Emotion Detection

Narrow Street Assistance

Our Innovative Features

JellyView: A 3D Transparent Mode for a Whole Car-body Transparency

Jelly View allows drivers to gain a clear view beneath their vehicle. The view is constructed using images from sensors and cameras, enabling Jelly View **to be seamlessly integrated into existing vehicles without additional hardware.**

- Unlike typical SVM providers using front or rear cameras for undercarriage visuals, JellyView **synthesizes data from all cameras** to ensure coverage at every steering angle.
- Offering **diverse viewing modes**, including front/rear and surround/top view.
- Seamlessly blending the undercarriage visuals with the surrounding layers, ensuring a cohesive and visually appealing experience.

### Touch2Park - Effortless Parking at your Fingertips. AutoTech Breakthrough Award Winner

Touch2Park allows drivers to select any empty space – not just inside the parking lot, and park in or out in any direction with a simple screen touch.

- Utilizes only four fish-eye cameras along with VinAI's cutting-edge machine learning algorithm to provide a comprehensive 360-degree view of the vehicle's surroundings during parking maneuvers, **helping OEMs reduce the Bill of Materials (BOM) cost**.
- Handles **various parking scenarios**, including parallel, perpendicular, and angled parking, and **diverse environmental conditions**, such as crowded urban areas or poorly lit environments.

Our Innovative Features

DrunkSense - The World's First Passive Drunk Detection System that Works without a Breathalyzer
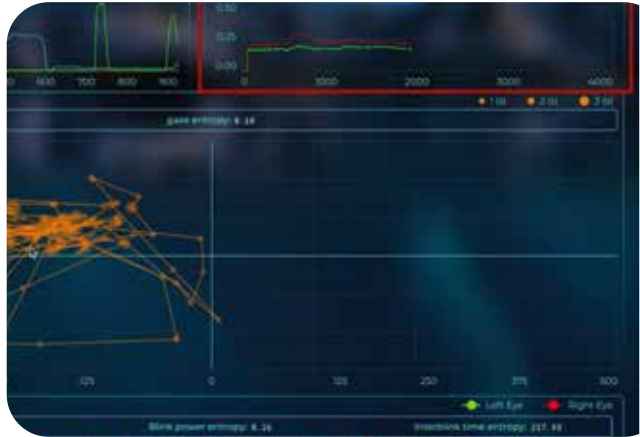
DrunkSense uses a multi-sensor approach that combines input from the DMS camera, such as tracking eye movement and blinking, with vehicle information like braking and acceleration control, to capture the complete views of drivers' behaviors. DrunkSense has **85% sensitivity in drunk driver detection, 8% higher than industry standards.**

- **Passive Monitoring:** No user interaction needed.
- **Safety Oriented**: Ability to detect drunk driving even when their BAC is below the legal limit.
- **Minimized False Alarms**: Ability to distinguish between impaired drivers and intoxicated passengers. Our advanced algorithms also filter out drowsiness and distractions, minimizing false alarms.
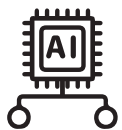
MirrorSense: The World's First AI-driven Automatic Mirror Adjustment Technology

MirrorSense, the world's first AI-driven automatic mirror adjustment technology developed by VinAI, has been honored with **the Innovation Award in the Vehicle Tech and Advanced Mobility category at CES 2024**. The automatic mirror adjustment technology in VinFast MirrorSense precisely detects the car driver's head position and eye gaze direction with a 10mm accuracy, automatically adjusting the position of all corresponding mirrors. This technology can be easily expanded to enhance safety applications while driving, such as augmented reality heads-up displays and auto-adjust seat settings, providing an intelligent, convenient, and safe driving experience on every journey.

![VinAi logo]

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