

COUNTER SURVEILLANCE

AI-Powered In-Vehicle Monitoring System for Fleet Safety and Driver Compliance

AI-powered in-vehicle monitoring platform that tracks driver behaviour, cabin activity, and route compliance in real time. Detects fatigue, distraction, and policy violations with immediate alerts to fleet managers and on-board audio warnings.



[In-Vehicle Monitoring System](#)

[Official Brochure](#)

SOLUTION SNAPSHOT

<p>DRIVER CAMERA</p> <p>IR, 1080p, 120° FOV</p>	<p>CABIN CAMERA</p> <p>1080p, 160° wide angle</p>	<p>GPS ACCURACY</p> <p>< 2.5 m CEP</p>
<p>AI EVENTS</p> <p>Fatigue / distraction / phone / seatbelt</p>	<p>ALERT LATENCY</p> <p>< 0.5 s in-cab + cloud</p>	

Built for Real Operations

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The system combines a driver-facing IR camera with a cabin-facing wide-angle camera, a GPS/GNSS module, and an on-board AI processor to deliver continuous DMS (Driver Monitoring System) and ADAS event logging. All data is streamed to a cloud fleet-management dashboard with configurable alert rules, video clip retrieval, and automated compliance reporting.

APPLICATIONS

Where This Product Fits

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Commercial Fleet Safety

Reduces accident rates by detecting and alerting on driver fatigue, phone use, and seatbelt violations in real time.

Government & Military Convoy Management

Monitors driver alertness and route compliance for high-value cargo convoys and official motorcades.

Insurance & Compliance Reporting

Provides video-backed evidence and automated event logs for insurance claims, driver coaching, and regulatory compliance.

SPECIFICATION

Technical Details

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Driver Camera	IR, 1080p, 120° FOV
Cabin Camera	1080p, 160° wide angle
GPS Accuracy	< 2.5 m CEP
AI Events	Fatigue / distraction / phone / seatbelt
Alert Latency	< 0.5 s in-cab + cloud
Storage	256 GB SD (loop recording)
Connectivity	4G LTE / Wi-Fi offload
Power	12-48 V DC vehicle bus
Operating Temp	-20 °C to +70 °C
Warranty	3 years hardware

Case Studies & Client Feedback

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"Fatigue-related incidents dropped by 70% in the first six months. The real-time alerts give drivers a chance to self-correct before an accident happens."

Fleet Safety Director

Regional Logistics Group, 800 vehicles

RESOURCES

Media & Questions

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Q. How is driver privacy managed?

A. Video is encrypted on-device and accessible only to authorised fleet managers. Drivers receive a clear in-cab notice that recording is active, in compliance with local labour regulations.

Q. How long does installation take?

A. A certified technician can install and configure a unit in 60-90 minutes per vehicle.

Q. Does it work without a cellular connection?

A. Yes. The unit records and processes events locally. Data is synchronised to the cloud dashboard when a 4G or Wi-Fi connection is available.

Ready to deploy In-Vehicle Monitoring System?

Talk to Nirikhon for product consultation, installation planning, integration support, and enterprise deployment.

Hotline: 01712345678 | Website: www.nirikhon.com