



Netradyne

NAFMP Solution Series

January 14, 2026

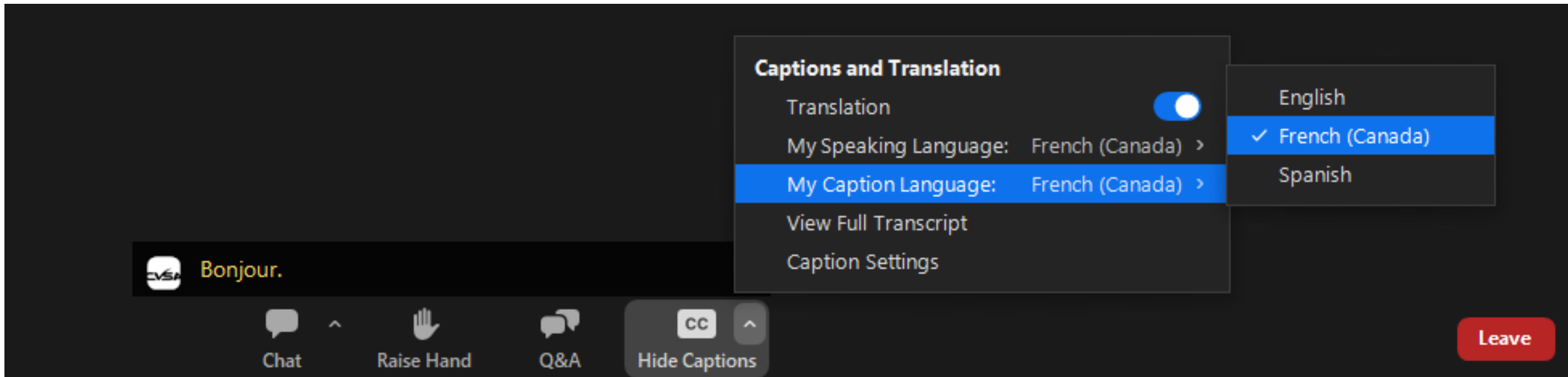
Slides are available **now** at
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1. Fatigue Management and Vendor Solutions
2. Netradyne Presentation
3. Questions

- Neither CVSA nor the NAFMP endorses or recommends any specific product or service
- The claims and system specifications of vendors have not been validated by CVSA or the NAFMP
- Solutions are a key component of a Fatigue Management Program

Fatigue Management Program



➤ Safety Culture

- 1) Education
- 2) Training
- 3) Continuous communications – Including partnerships

➤ Fatigue Risk Management System

- 1) Operations
- 2) Identify risks with processes and controls
 - Predictive, proactive, reactive
 - Sound scheduling & routing practices , sleep disorders management program, and fatigue detection technologies
- 3) Risk assessment
- 4) Measures and countermeasures
- 5) Evaluation

- Tools
 - FMP Template
 - Implementation Manual
 - ROI Calculator
- Courses
 - eLearning Platform
 - PowerPoints with and without audio
 - For carrier's executives, safety managers, dispatchers, instructors, drivers, driver's families, shippers & receivers
- Webinars, Info Sessions & Articles
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 - The NAFMP Pod
 - Available from eight platforms
- Events
 - Download individual event
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Netradyne Presentation





Preventing fatigue related crashes

With award-winning drowsy driving detection that protects drivers, reduces claims, and gives managers clear, objective data



Speaker & Agenda



Philippe Riché

Senior Director of Product

The Netradyne mission

The risk fatigue creates in your fleet

How a Driver Monitoring System (DMS) Sensor changes the outcome

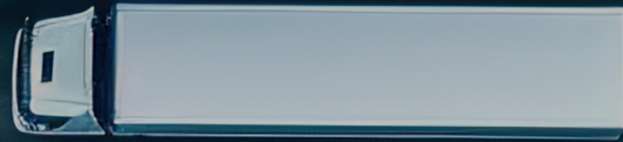
What this looks like for your team

How to test it in your fleet

Security and privacy by design

Our Mission

Partnering with fleet operators to deliver
safety, efficiency and performance
with real-time, edge intelligence



Why pursue this mission?



Increased pressure
on drivers and safety



Operational burden
and tight margins



Multiple systems
to manage

Partnering to address critical fleet challenges

One device. One platform. One partner for safe, efficient fleets

- AI intelligence based on full-context to **enhance safety** and **protect drivers**.
- Integrated fleet management to **streamline operations** and **reduce costs**.
- Secure, scalable platform to **simplify experience** and **tech stack**.





Fatigue Management

What is drowsy or fatigued driving

Drowsy or fatigued driving is operating a vehicle while mentally or physically exhausted, sleepy, or tired.

This state significantly impairs driving ability, much like alcohol it:

- Slows reaction time
- Weakens judgment and decision-making
- Reduces attention, vigilance, and ability to process information



Why fleets cannot ignore Fatigue

The [NHTSA](#) estimates fatigue plays a role in up to **40 percent** of heavy truck crashes



1.

1 in 25 drivers admit to falling asleep behind the wheel.

[CDC](#)



2.

Driving on 4-5 hours of sleep means you are four times more likely to crash

[CDC](#)

Each year, drowsy driving accounts for about 100,000 crashes, according to the

[National Safety Council \(NSC\)](#)



3.

6,400 people die from drowsy driving crashes each year

[National Sleep Foundation](#)



4.

Losing two hours of sleep is like having **3 beers**

[CDC](#)

Contributing to various factors

Fleets must address rising risks, costs, and inefficiencies while adapting to evolving safety expectations.

- Escalating accident & liability costs
- Claims management & staged incidents
- Operational complexity
- Rising operational costs



Why is Fatigue hard to address

- Fleets have no clear policy to assess and handle Fatigue
- Fleets have very limited insights on actual driver fatigue
- Driver are under a lot of pressure to keep driving
- Relying on Driver alone to assess their Fatigue level is challenging
- Degrees of Fatigue are subjective
- Fatigue is not just 1 behavior, it is a variety of Fatigue behavior
- Best policy is to have a team for real-time intervention

How fleets try to manage fatigue today



Hours of service



Policies and training



Basic dashcams

Your drivers are alone out there



The hard part is knowing when to step in, not just what your policies say on paper.

To change outcomes, you
need more than guesswork.

You need timely and accurate data.

Fatigue Management – Components

- **Deploy a dedicated monitoring system in the cab (Dashcam)**
 - A Driver Monitoring System (DMS) will monitor your driver Fatigue behavior and report real-time
- **Actively manage the drowsy alerts in real-time**
 - Fleet
 - Clear policy for Driver on what to do when Fatigued
 - Clear directions for Safety Managers to implement the policy
 - Drivers:
 - In-cab audio message to inform the driver to stay alert
 - Safety Managers
 - Use Dedicated Dashboard to track your drivers at risk of Fatigue
 - Monitor Fatigue progression for individual driver
 - Take action and call the driver
- **Coaching**
 - Review Fatigue alerts with Drivers and Fleet policy

Evolution of Drowsy Detection



Driver-i D-450
126.6 x 78.6 x 85.6 mm
(4.98 x 3.09 x 3.37 in)

- Standard Dashcam
 1. Yawning
 2. Head movement, basic eye closure



D-810 Dual View Camera
57.5 x 35.8 x 45 mm
(2.26 x 1.41 x 1.77 in)



Driver-i D-810 Hub
174 x 110 x 62 mm
(6.85 x 4.33 x 2.44 in)



DMS Sensor
3.22in x 2.19in x 1.57in with mount

- Dedicated Driver Monitoring System (DMS)
 - Precise eye and head movement detection

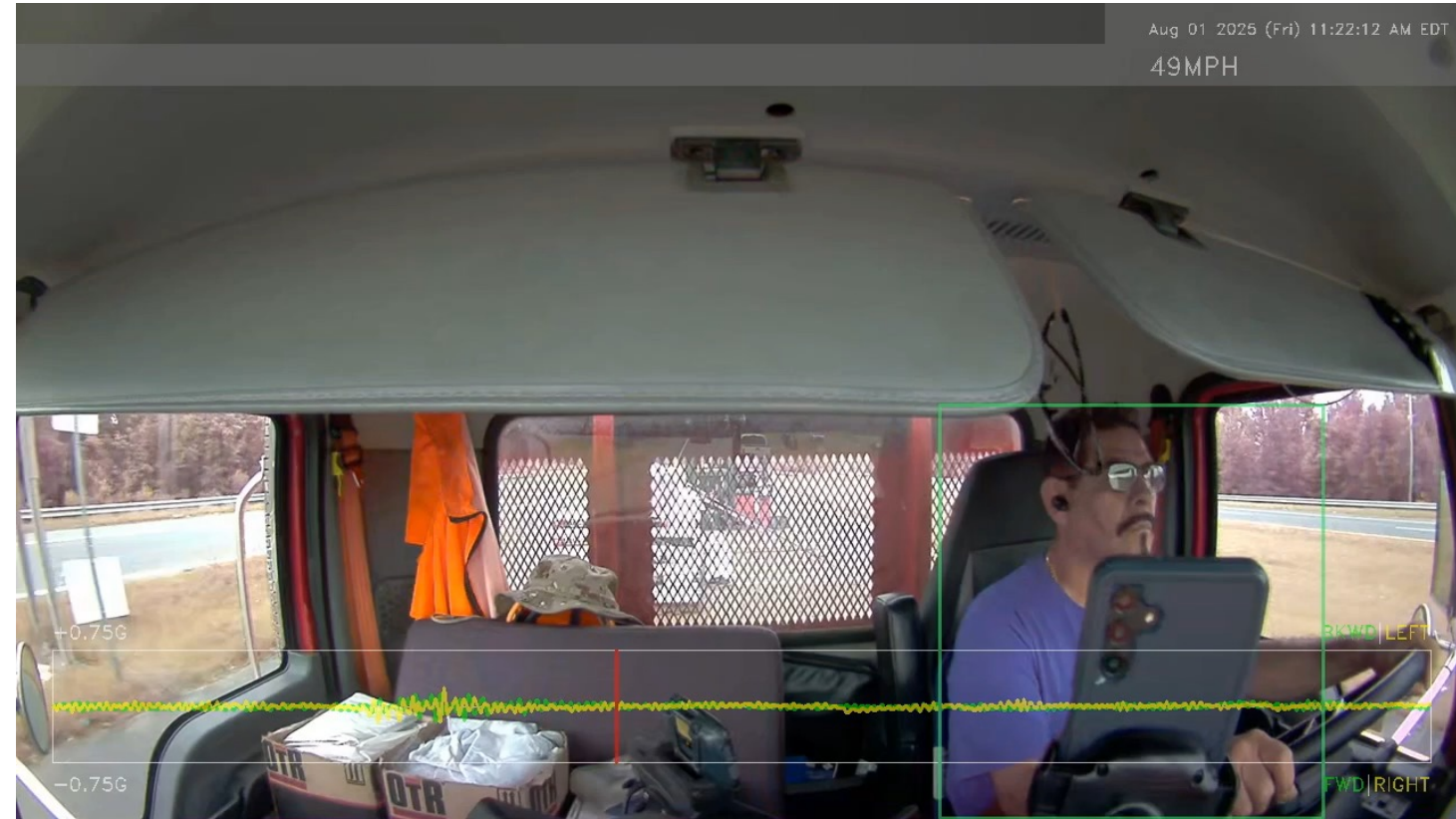


In-vehicle Installation



DMS Sensor vs Dashcam

- Watches for early fatigue signals and severe drowsiness
- Alerts the driver in cab at the earliest moment
- Sends fewer but highly accurate alerts to managers



How alerts work

Driver drowsiness detection with DMS Sensor is much smarter and more helpful than our previous version.

First Moderate Alert: In-Vehicle Voice for Drivers

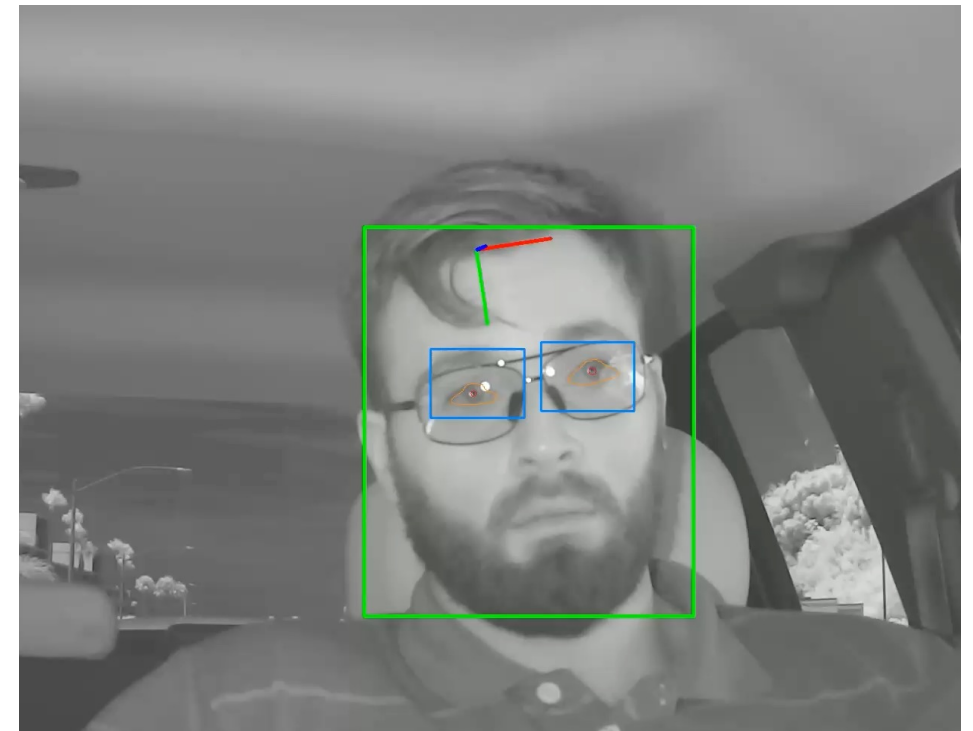
When signs of drowsiness are detected, drivers receive an immediate in-vehicle audio ‘nudge’ alert, prompting them to refocus or take a break.

Second Moderate Alert: In-Vehicle Voice and Dashboard

If drowsy behavior continues and a second in-cab alert is triggered within the same hour, a Moderate Drowsy Alert is sent to your fleet management dashboard.

Severe Drowsy Alert: Three Beeps, Voice and Dashboard for serious events like microsleeps or prolonged eye closure, a Severe Drowsy Alert is sent instantly to IDMS for immediate action.

If Vehicle is equipped with **Netradyne Haptic feedback accessories**, the driver will feel a vibration for the drowsy alerts.

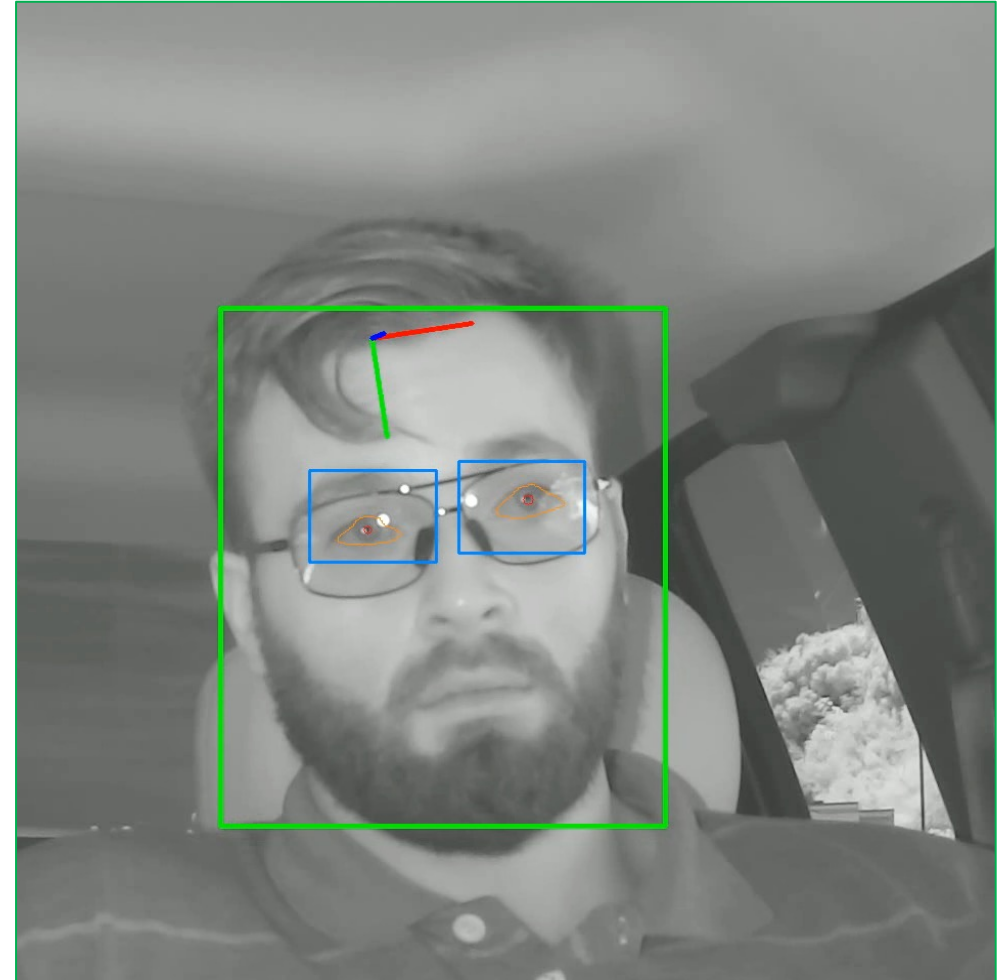


Note: If In-vehicle audio is disabled the system automatically monitors and raises IDMS alerts after two “theoretical” in-vehicle alerts would have occurred, ensuring you never miss a critical event

Drowsy detection that works with most glasses



What a standard dashcam sees



View from DMS Sensor: Infrared sensing looks through most sunglasses to track eye behavior in low light and bright sun.

A simple workflow for your managers



1. Spot at risk drivers fast



2. Review clip and context



3. Call or intervene



4. Log what you did for proof and coaching

• Live Management

Last Updated: June 7, 2025 11:05 AM EST



Active
Drivers



Driver
Watch List



Recent
Action Log



Quick Stats

Showing 4 flagged drivers of 4 total

Drowsy Management

Potential Collisions

Drivers

Added to Watch

[James Jackson](#)



[Unknown Driver](#)



Benefits of Fatigue Management

- **Builds trust.** Drivers and managers know a Severe alert really means something, so it is easier to act on it.
- **Keeps drivers safer.** Early and severe fatigue signals are handled differently so you can prevent more incidents, not just review them.
- **Improves focus.** Safety managers spend less time clearing noise and more time with the few drivers who really need help.



By actively managing Fatigue



**Fewer severe
crashes**



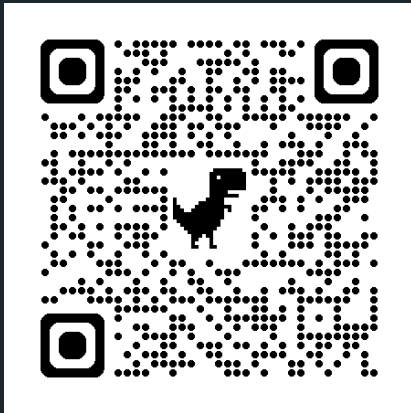
**Lower legal and
insurance exposure**



**Stronger safety culture
and retention**

How to get started with Netradyne

Start focused, prove the impact, then scale



Schedule a Demo

1. Pick a pilot group
 - 30–50 higher risk vehicles, routes, or regions
2. Run DMS Sensor for 60–90 days
 - Turn on drowsy detection and manager workflows
3. Track what changes
 - Fatigue alerts, interventions, crashes, and claims
4. Review results with our team
 - Decide where to expand and how to roll out



Security & privacy built in

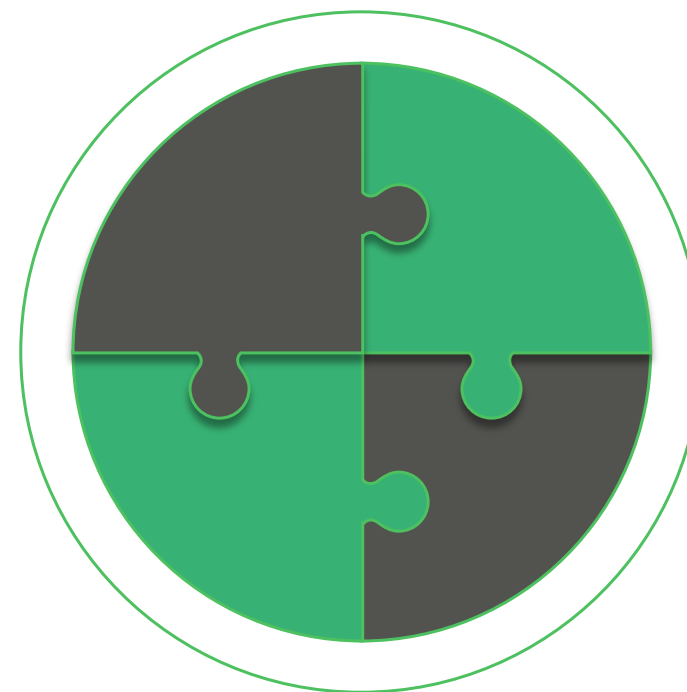
Your partner in an evolving privacy landscape

Keep drivers protected and data under your control

Protect data and drivers. Encryption, strict access controls, and audited systems keep video and event data secure.

Meet changing rules. Flexible retention and regional settings align with local laws and internal policies.

Fit your privacy culture. Multiple privacy modes and blurring options you can configure by fleet, region, or group.



A foundation of trust and transparency

The Pillars of Netradyne's Privacy by Design



Transparent Collection

We capture video and related event data like location and speed.

On-device processing

Data is processed on the device so less than 1% of all data is uploaded for review.

Controlled access

All data is encrypted. You control who sees what through custom user roles and permissions.

Video anonymity

We can automatically protect video and identities by blurring faces and license plates and adding watermarks.

Defined Retention

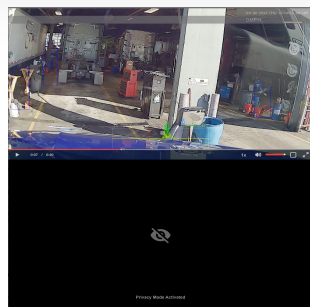
You define your data's lifespan. Our flexible policies let you set how long data is stored on the device.

Two privacy modes you control

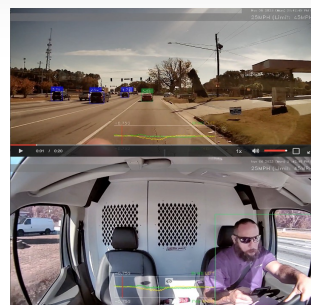
Pick the right balance of safety and privacy for your fleet



Regular Mode



How it Pauses: Vehicle stopped for 30s **OR** engine is off = Inward camera pauses



How it Resumes: Engine is started **OR** vehicle moves >5 mph = Inward camera resumes

The Benefit: A simple, automatic way to ensure driver privacy during breaks and downtime, building trust without any driver interaction required.



Enhanced Mode in Action



Inward camera analyzes for risks & Generates a "Sensor Only" Alert



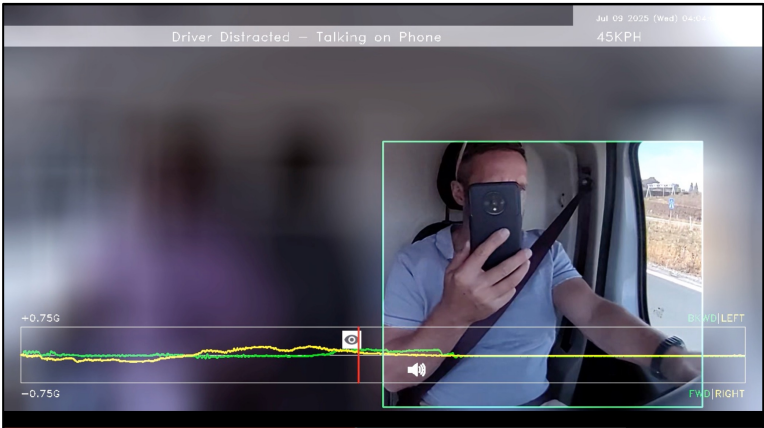
Original video data is immediately deleted from the device and is never uploaded.

The Benefit: Get critical, real-time in-cab alerts for high-risk behaviors (like distraction or drowsiness) without ever storing or viewing the inward video. It's the ultimate combination of safety and privacy.

Privacy in action: Blurring



No blurring



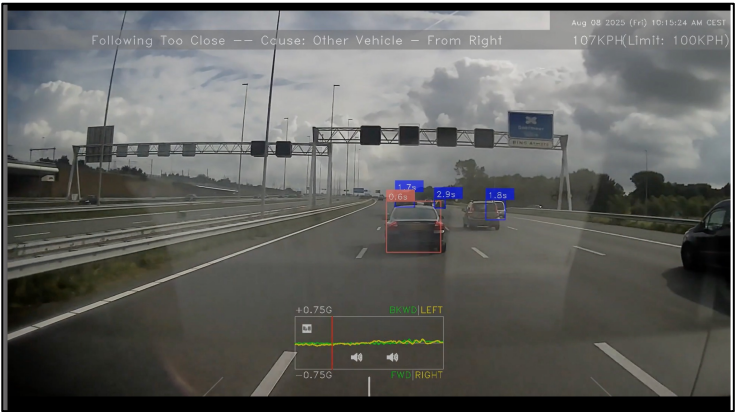
In-vehicle except driver



Driver & passenger face blurring



Driver face only



Outward blur
License plates and pedestrian faces

Transparency recommendation

**Consent helps protect
against lawsuits**



In-cab Safety Features



<https://www.netradyne.com/legal/sample-consent-in-cab-safety-features>



Key takeaways



See Fatigue Earlier

DMS Sensor spots early warning signs and severe drowsiness in real time, not after the crash.



Act in the Moment

Drivers get in cab coaching while there is still time to correct, and managers see a simple workflow for true high-risk events.



Protect Drivers & Data

Privacy modes and blurring options let you tune what is seen and stored so you can balance safety, privacy, and compliance

Bottom line: Netradyne with DMS Sensor help drivers stay alert, reduce incidents, and reduce risk without creating a privacy problem.



Q&A

Additional Questions?



Email additional questions to
Rodolfo.Giacoman@CVSA.org

Recording will be available at
nafmp.org/webinars

Please complete anonymous survey on this webinar at the end of the Zoom session

Thank you!



CVSA®