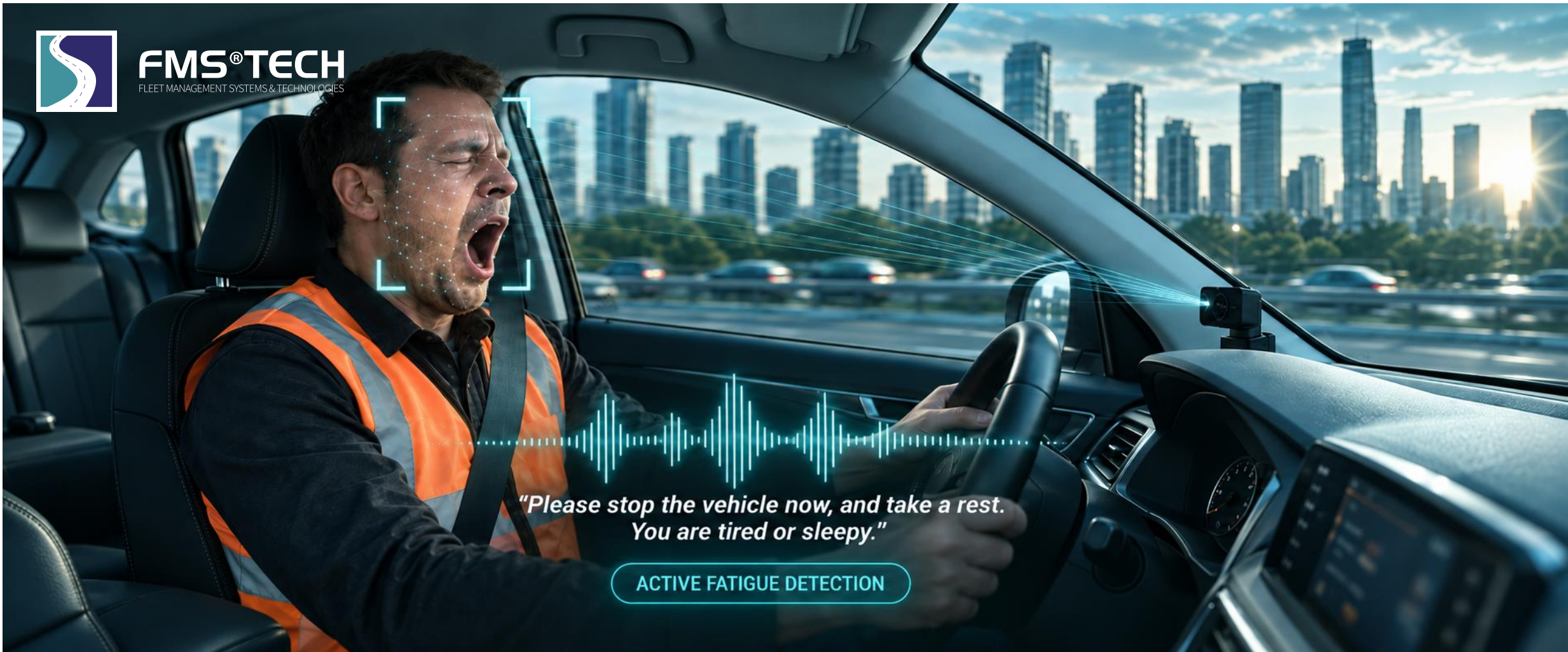




FMS®TECH
FLEET MANAGEMENT SYSTEMS & TECHNOLOGIES



Active Fatigue & Distraction Detection (AFDD) & Driver Safety

Protecting Our Drivers Through Real-Time Assistance and Continuous Support



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Fleet Management Systems & Technologies - **FMS Tech.**

Fleet Management Systems and Technologies (FMS Tech.) is a pioneer and innovator of in-vehicle monitoring and onboard computer technology.

FMS Tech. has provided fleet management systems that have generated millions of dollars in savings and profits for our customers.

Our onboard computers and fleet management software provide vehicle tracking and information to reduce road accidents and increase productivity, efficiency, and profits.



Road Accident Statistics Worldwide

GLOBAL ROAD SAFETY

Key global road safety statistics

1.16 MILLION

ROAD DEATHS EACH YEAR

Approximately 1.16 million people die annually in road traffic crashes worldwide.



20-50 MILLION

NON-FATAL INJURIES

Millions more suffer non-fatal injuries each year, with many living with disabilities.



92%

FATALITIES IN LMICs

Most global road deaths occur in low- and middle-income countries, despite having around 60% of the world's vehicles.



4x

MOBILE PHONE CRASH RISK

Drivers using mobile phones are approximately four times more likely to be involved in a crash.



Stay alert. Keep your eyes on the road.

Source: World Health Organization, Road traffic injuries fact sheet, 20 July 2026



Hidden Dangers on the Road

SECONDS MATTER

Fatigue, distraction and stopping distance

MICRO-SLEEP

Falling asleep for just **2 seconds** is called micro-sleep.



BLIND DRIVING

At **80 km/h**, sleeping for **2 seconds** means travelling **44 meters** totally blind.



BRAKING DISTANCE

Heavy trucks need much more space and time to completely stop.



DISTRACTION

Looking at your phone for **1 second** adds an extra **25 meters** to your stopping distance.





AFDD

Active Fatigue & Distraction Detection

A smart AI-based safety camera system installed inside your vehicle cabin.



Fatigue
Detection



Distraction
Detection



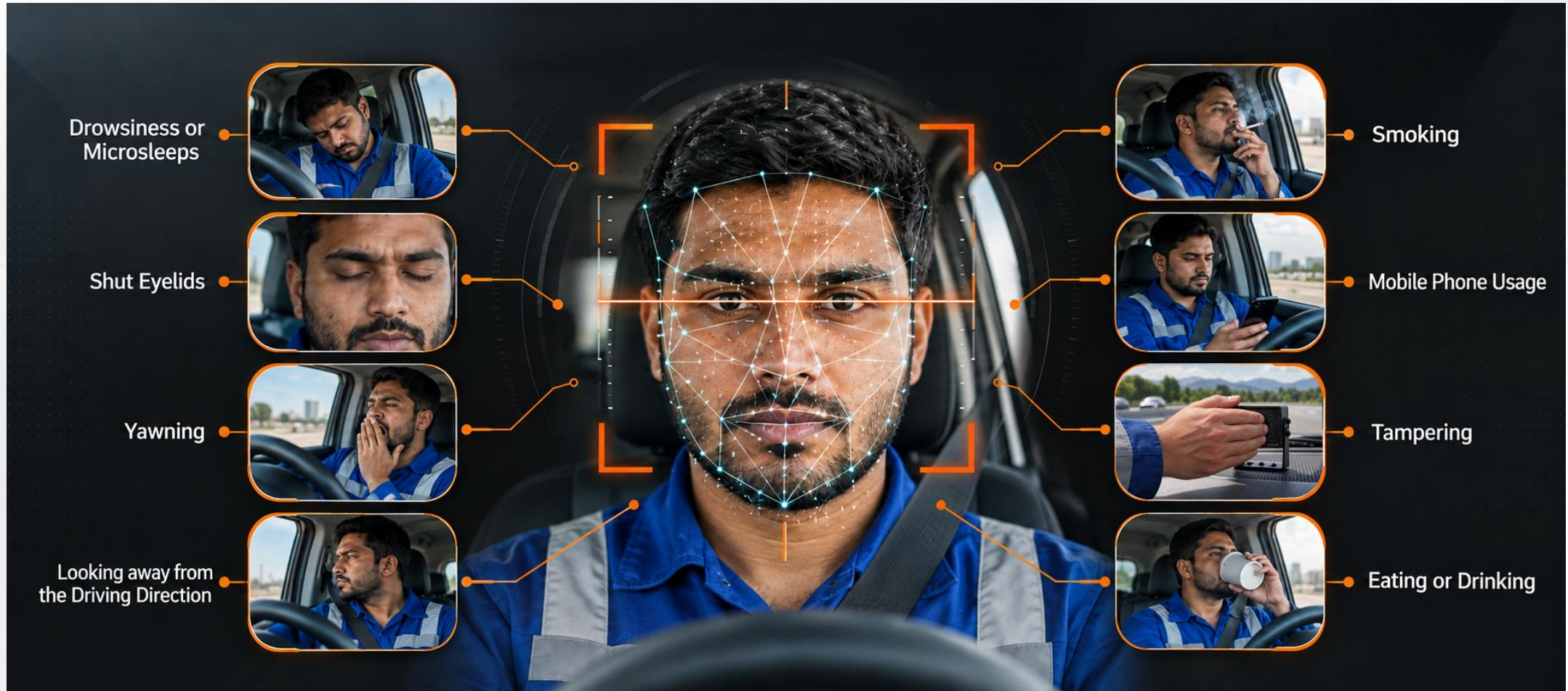


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What Does the AFDD Camera Detect?





Alerts & Warning



01 Audio

Plays messages in the driver's preferred language.



02 Seat Vibration

Vibrates the driver's seat to wake them up during fatigue events.



03 Control Room Alert

Sends an alert to the control room with a short video clip of the event so they can help the drivers.

Detect. Alert. Respond.



Why AFDD?

AFDD: FROM EARLY DETECTION TO FAST ACTION



01

Early Detection

It is hard for a driver to know the exact moment they are too tired to drive.



02

Real-time Feedback

Before the camera, there is no one to wake you up if you fell asleep while driving.



03

Finding the Reason

If a crash happened, we did not know why.



04

Fast Action

Now, the system can alert you before an accident to take instant corrective measures.



AFDD: YOUR SAFETY CO-PILOT

“AFDD is not a spy camera; it is your co-pilot, designed to ensure you return home safely to your family after every shift.”



Primary Purpose

Life protection and accident prevention—not monitoring for punishment.



Proactive Function

Detecting fatigue before your body alerts you.



Strictly Enforced Rules

SAFE DRIVING RULES



01

NO Distractions

Keep your eyes on the road at all times



02

NO Mobile Phones

Do not hold, text, or talk on your phone while driving.



03

NO Camera Tampering

Do not cover the camera, unplug it, or move it.



Enforcements & Penalties:



Immediate Driver
Suspension & Internal
Investigation.



Heavy fines.



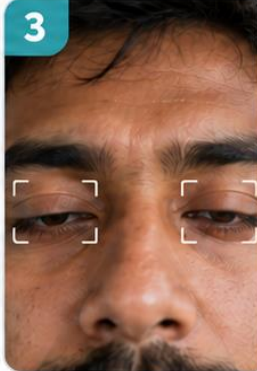
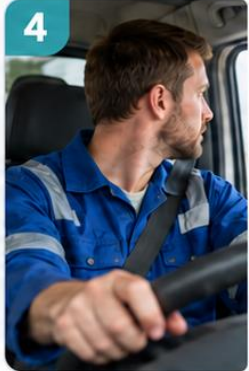
Blacklisting from
projects and sites.



AFDD Configuration for Operation

AFDD DETECTION THRESHOLDS

Event duration and vehicle speed conditions

1  Microsleep Eyes 100% closed ≥ 1.5 seconds Speed ≥ 10 km/h	2  Long Yawning Yawning ≥ 3 seconds Speed ≥ 10 km/h	3  Slow Blinking 4 blinks or fewer in 60 seconds ≤ 4 blinks / 60 seconds Speed ≥ 10 km/h	4  Looking Away Face turned away from the road ≥ 4 seconds Speed ≥ 40 km/h
5  Mobile Phone Use Calling, texting or messaging ≥ 4 seconds Speed ≥ 10 km/h	6  Smoking Smoking in the cabin ≥ 2 seconds ANY SPEED	7  No Seatbelt Seatbelt not worn ≥ 10 seconds Speed ≥ 10 km/h	8  Camera Blocking (FOV) Camera blocked, covered or turned away ≥ 10 seconds Speed ≥ 10 km/h



Your Daily Checklist

SAFE DRIVING STARTS WITH YOU



01

Check the Camera

Make sure it is clean and not blocked before you start driving.



02

Sleep Well

Try to sleep for 7 to 8 hours before your shift.



03

Listen to Alarms

Take the audio and seat vibration alerts seriously. Pull over and rest if you're tired!



04

Speak Up

Inform the Fleet Managers immediately if you feel too tired to continue driving.



The AFDD camera is here to save our lives,
but we all have an **equal shared responsibility** to follow the rules and practice safe driving.

ADAS + AFDD

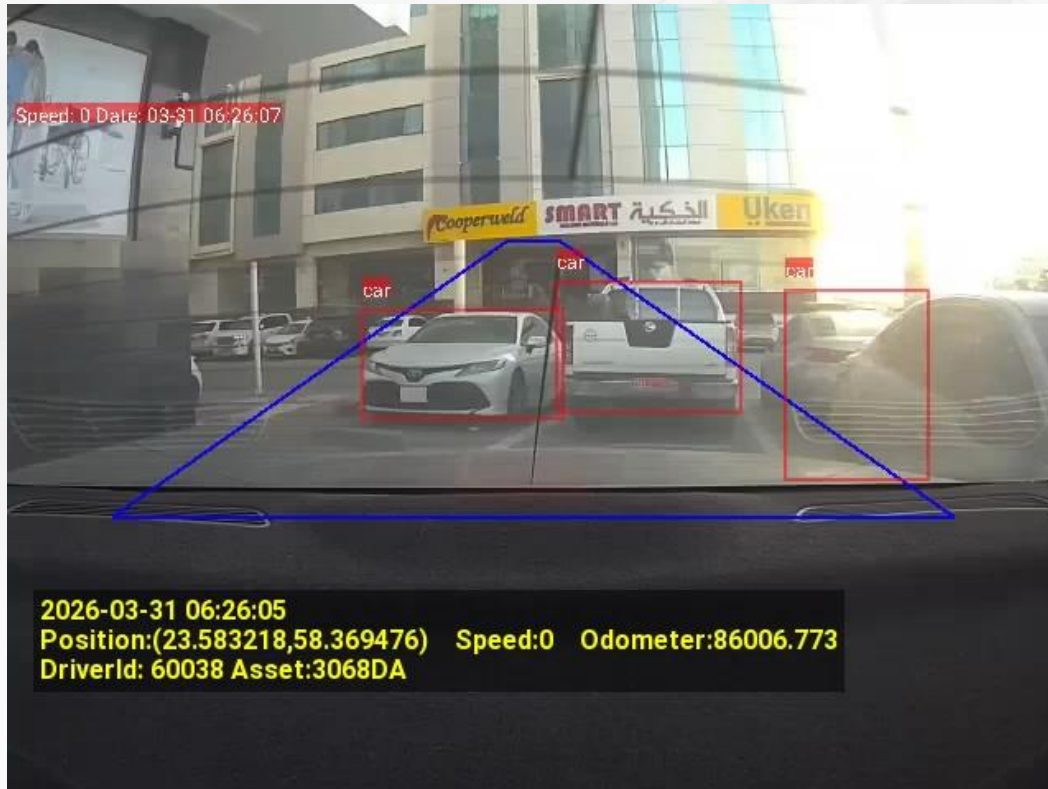
Road awareness. Driver awareness. Safer journeys.



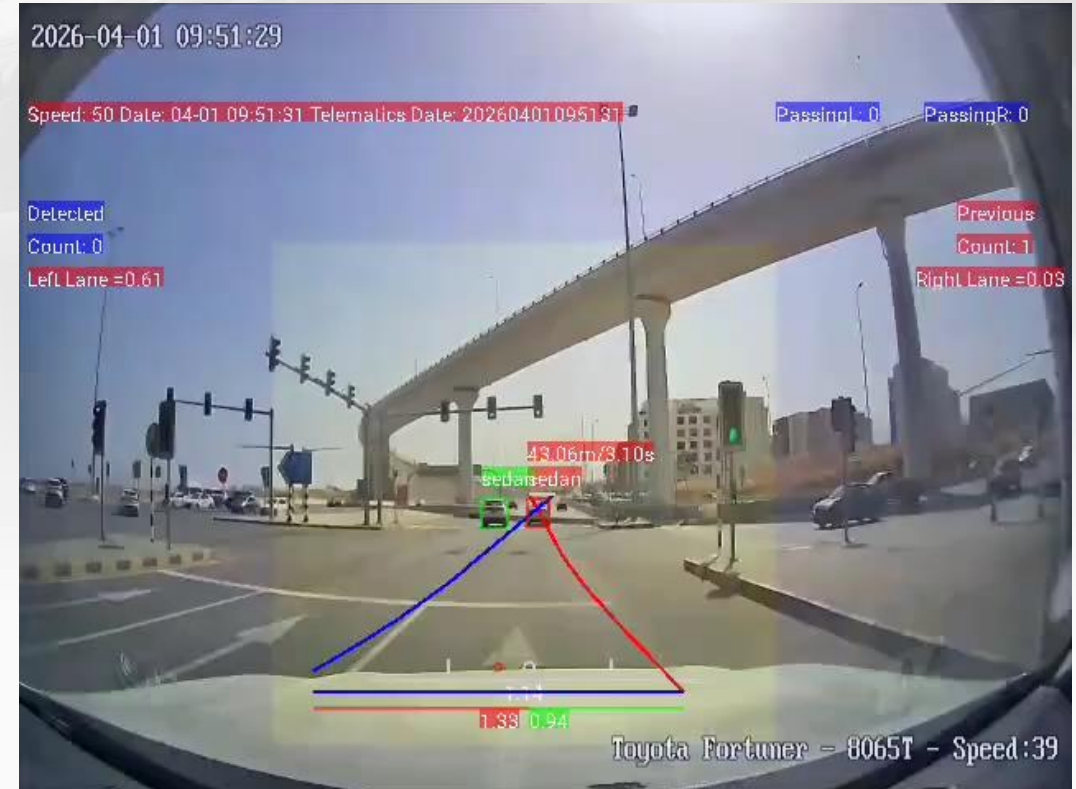
ADAS watches the road. **AFDD** watches driver alertness.



Sample Clips of ADAS



Rear Camera



Forward Camera



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THANK YOU