RED EDGE RESOURCES

FLEET SAFETY SOLUTIONS
TRANSPORT · RESOURCES · CIVIL



IN-CAB DRIVER MONITORING

FATIGUE MANAGEMENT

A logbook tells you a driver was *allowed* to be behind the wheel. It doesn't tell you whether they were **awake**. Red Edge Resources supplies, installs and supports AI dash cam systems that watch for the signs of fatigue in real time, warn the driver in the moment, and put the evidence in your hands.

REAL-TIME IN-CAB ALERTS | INFRARED, DAY & NIGHT | CLOUD EVIDENCE | DRIVER COACHING

THE GAP IN EVERY FATIGUE POLICY

ROSTERS MANAGE EXPOSURE. CAMERAS MANAGE THE MOMENT.

Fatigue management has traditionally been a paperwork exercise — hours of service, break scheduling, rostering, and a signed declaration at the depot gate. Those controls matter, and they are the backbone of a compliant operation. But every one of them is a *prediction* made before the trip starts.

Micro-sleeps and long eye closures don't wait for the next scheduled break. They arrive on a quiet stretch of highway at 3am, on the last leg of a shift, in a driver who passed every check on the way out. By the time a fatigue event shows up in your incident data, the risk has already been realised.

A driver-facing infrared camera closes that gap. It is the only control that operates continuously, inside the cab, while the vehicle is moving — and the only one that can intervene while there is still time to act.

> **The alert that matters most is the one the driver hears — not the one you read on Monday.**



SIX-LED INFRARED DRIVER-FACING CAMERA — OPERATES IN FULL DARKNESS WITHOUT ILLUMINATING THE CAB.



MONITORING RUNS CONTINUOUSLY WHILE THE VEHICLE IS IN MOTION.

01

DETECT

Edge AI processes the driver-facing video on the device itself, tracking eye and head position for the signs of fatigue and distraction — day or night, via infrared.

02

ALERT

An audible in-cab warning is issued immediately. The driver is refocused in the moment, before a lapse becomes a lane departure or a collision.

03

CAPTURE

The event is recorded with forward and inward video, GPS position, speed and G-force data — stored on the SD card and uploaded to the cloud over 4G.

04

COACH

Events surface in the fleet dashboard, ranked by severity, with driver scorecards. Review, discuss, close out — and evidence the intervention.

DETECTION RUNS ON-DEVICE

Detection runs on the camera's own AI processor. Alerts don't wait for a mobile signal, and monitoring continues through black spots.

NOTHING IS A BLACK BOX

Footage is written to the SD card and mirrored to the cloud, so an event survives damage to the vehicle or the device.

IT PROTECTS DRIVERS TOO

The same footage that flags a fatigue event also clears a driver of a claim they didn't cause. Drivers accept the system faster when it protects them.

ALERT CATALOGUE

WHAT THE SYSTEM WATCHES FOR

Fatigue rarely presents on its own. It shows up alongside drifting, late braking and inattention — so the system monitors the driver, the road ahead and the vehicle's motion together, and treats them as one risk picture.

DRIVER MONITORING

INWARD INFRARED CAMERA · DMS

- **Signs of fatigue** — eye closure and head position tracked continuously
- **Distraction** — head turned away from the road beyond a set duration
- **Mobile phone use** — handset activity detected while driving
- **Seat belt not worn**
- **Smoking** and other cab-policy breaches (configurable)

ROAD AHEAD

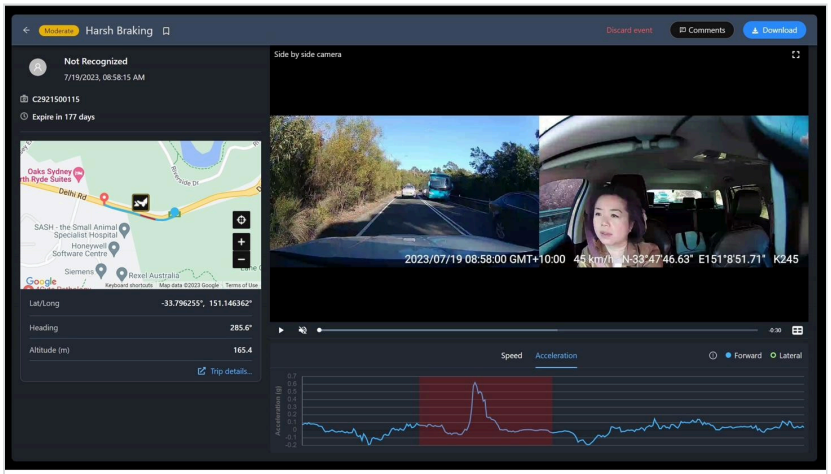
FORWARD CAMERA · ADAS

- **Lane drift** — gradual departure from lane centre, a classic fatigue indicator
- **Lane departure** — leaving the lane without indication
- **Forward collision warning** — closing distance on the vehicle ahead
- **Tailgating** — following too closely for the speed
- **Stop sign** and **speed limit** violations

VEHICLE MOTION

G-SENSOR · GYRO · GPS

- **Harsh braking** — late reaction, often the first fatigue symptom to appear in data
- **Harsh acceleration**
- **Harsh cornering**
- **Over-speeding** against the posted or fleet limit
- **Impact detection**, including while parked



EVENT REVIEW · Harsh braking, moderate severity — road view and cabin view synchronised to the map track, with the acceleration trace that triggered the recording highlighted.

Every alert arrives as evidence, not a number.

An event opens with the road view and the cabin view side by side, synchronised to the map position, speed and the acceleration trace that triggered it. You can see what the driver saw and what the driver was doing, in the same frame.

- Severity-ranked event feed
- Driver scorecards and trend history
- Live view and trip replay
- Geo-fence entry and exit alerts
- Download or stream footage for investigations
- API and SDK for integration with your existing fleet systems

Alert types and sensitivity thresholds are configurable per fleet, and some alerts activate only above a set road speed. Available alerts vary by camera model and software plan. In-cabin recording may constitute workplace surveillance — Red Edge Resources will confirm the exact configuration and privacy settings for your fleet.

CHOOSE YOUR CONFIGURATION

BUILT FOR THE VEHICLE, NOT THE OTHER WAY AROUND

Edge E1

FORWARD FACING
LIGHT FLEET · UTES · VANS



CAMERAS
Forward Full HD 1080p / 30fps

FATIGUE MONITORING
Add the i25 infrared camera

CONNECTIVITY
4G LTE Cat.6, dual-band Wi-Fi, BT, GNSS

SIZE / WEIGHT
98 × 106 × 39.2 mm · 193 g

Edge E2

FORWARD + INWARD
THE FATIGUE BASELINE



CAMERAS
Forward + inward infrared, both Full HD

FATIGUE MONITORING
Built in — no add-on required

CONNECTIVITY
4G LTE Cat.6, dual-band Wi-Fi, BT, GNSS

SIZE / WEIGHT
122.8 × 106 × 44.2 mm · 213 g

Edge E7

UP TO 7 CHANNELS
HEAVY VEHICLES · PLANT



CAMERAS
Forward + inward IR, plus up to 5 more (4 × TVI, 1 × USB)

FATIGUE MONITORING
Built in — embedded AI, DMS and ADAS

STORAGE
Dual SD slots, up to 1 TB, plus cloud backup

SIZE / WEIGHT
124 × 88.6 × 101 mm · 340 g

Edge E-IR

INFRARED DMS CAMERA
ADD-ON · RETROFIT



PURPOSE
Adds driver-facing fatigue monitoring to a forward-only install

PLACEMENT
Windscreen or A-pillar; 3-axis adjustable mount

IMAGING
6 IR LEDs, 720p / 30fps, auto day-night

FITS
K145, K145c, K245, K245c, K265

SPECIFIED, NOT SOLD

We match the configuration to your fleet mix and duty cycle — not to a catalogue page.

INSTALLED PROPERLY

Mounting position determines whether driver monitoring works at all. We install to spec.

CONFIGURED WITH YOU

Alert types, thresholds and privacy settings tuned to your policy and agreements.

SUPPORTED LOCALLY

Onboarding for your fleet and safety teams, and ongoing support after handover.

LET'S LOOK AT YOUR FATIGUE EXPOSURE

Send us your fleet list and current fatigue policy. We'll come back with a recommended configuration, an install plan and an indicative cost — and, if it's useful, a short trial on a handful of vehicles before you commit to the fleet.

RED EDGE RESOURCES

PHONE
1300 769 359

EMAIL
contact@rededgeresources.com.au

WEB
www.rededgeresources.com.au

Driver monitoring is a risk control, not a substitute for a compliant fatigue management system. Operators remain responsible for their obligations under the Heavy Vehicle National Law and applicable WHS legislation, including Chain of Responsibility duties. In-cabin recording may constitute workplace surveillance — check your obligations before deployment. Specifications sourced from manufacturer datasheets and subject to change. All trademarks are the property of their respective owners.