

Guardian Generation 3

**AUTOMOTIVE-GRADE.
AFTERMARKET READY.**

**GUARDIAN
GENERATION 3
IS POWERED BY
SEEING MACHINES'
PROVEN DRIVER
MONITORING
SOFTWARE –
FOVIO® – TRUSTED
BY LEADING
AUTOMOTIVE
BRANDS FOR
OVER A DECADE.**



GUARDIAN

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Guardian Generation 3 has been developed as the world's most advanced aftermarket driver monitoring system, offering a sleek, all-in-one solution to protect drivers from the dangers of drowsiness and distraction.

Guardian Generation 3 stands apart with precision optics matched with Seeing Machines' world-class automotive-grade algorithms to deliver premium performance in the most demanding real-world driving conditions.

EARLY DROWSINESS DETECTION

Guardian is setting a new standard in fatigue management with early drowsiness detection. The system, underpinned by Human Factors science, continuously monitors and evaluates a driver's level of drowsiness against the Karolinska Sleepiness Scale (KSS), and intervenes in real time if they are at risk. By intervening pre-emptively, drivers are made aware of their increased risk and can take action before they tire further and potentially have a microsleep. Additionally, fleet operations have real-time information regarding drivers at an elevated drowsiness level. If the driver's drowsy state continues to worsen and a microsleep occurs, Guardian will immediately intervene and warn the driver with audio, visual and haptic alerts to wake them up.

SUPERIOR DISTRACTION DETECTION

Using Seeing Machines' proven automotive technology, Guardian meticulously tracks a driver's eyes – not just their head – to provide a significantly more accurate indication of the driver's focus. Tracking repeated, short off-road glances – known as visual attention time sharing – enables the detection of driver inattention such as cell phone use or notifiable distraction (e.g. eating and drinking). Seeing Machines' superior research and understanding into human behaviour allows these algorithms to balance the capture of visual attention time sharing with the brief off-road glances that are a natural part of driving. In-cab alerts allow for instant intervention to correct these risky driving behaviours. When a driver's attention is not focused on the road ahead for a continuous period, the system again intervenes to get their attention back to the task of driving.

CLEVER COMPLIANCE DETECTION

Guardian's wide vertical field of view captures more of the driver's body to enhance cell phone detection and support additional capabilities, such as smoking and seat belt detection. These features can help fleets ensure their drivers are complying with applicable laws and company policies.

AutoSense
DRIVING SAFETY



To protect drivers and prevent accidents, real-time intervention is key. That's why Seeing Machines combines industry-leading in-cabin driver safety technology with 24/7 human monitoring in our **Guardian Centre**. Our team of highly trained analysts work around the clock to review and classify every single risky driving incident captured by Guardian, saving you time to focus on other activities. Committed to getting everyone home safely, the Guardian Centre analysts then notify you within minutes of a confirmed fatigue event, so you can intervene and protect your drivers, your way.

Seeing Machines' aftermarket safety technology is also supported by the **Guardian Live** web platform, which stores data and video of fatigue and distraction events, providing fleet managers secure access to view this information, 24/7. The comprehensive, near real-time driver and vehicle data can be used to understand situations as they evolve, and support compliance and reporting requirements. The insights available through Guardian Live can also enable your business to improve training, education and reward programs and identify operational improvements to help keep your drivers and other road users safe.

GUARDIAN'S PREVENTATIVE TECHNOLOGY HAS BEEN INDEPENDENTLY TESTED AND MEETS THE EUROPEAN COMMISSION'S GENERAL SAFETY REGULATION FOR DROWSINESS DETECTION.

KEY FEATURES:

SMART

- Evaluates driver drowsiness levels and intervenes earlier, alerting drivers to act before the situation escalates.
- Tracks a driver's eyes to detect continuous and repeated off-road glances for highly accurate distraction analysis.

INTUITIVE

- Simple icons on the OLED display allow drivers to quickly and easily identify the reason for an in-cabin alert and self-coach to recognise and proactively manage these risks.
- High quality audio enables driver warnings through uniquely recognisable sounds, based on the severity and urgency of an event.
- The optional vibration motor delivers powerful haptic alerts, providing an additional driver intervention measure when risky behaviour occurs.

SMALL

- The compact all-in-one device is quicker and simpler to install, offering a tidy, small in-cabin footprint.
- Aesthetically designed to be unobtrusive and integrate neatly within the cabin, with various mounting options to allow for flexible in-cabin placement to meet differing fleet requirements and ensure optimal field of view is achieved.

CONNECTED

- Multiple options are available for integration with complementary safety systems and existing vehicle telematics if required.
- Customers can select the data option most appropriate for their fleet, choosing to BYO external SIM or requesting data be supplied.

POWERFUL

- The powerful AI processor leverages Seeing Machines' automotive-grade driver monitoring engine, offering superior performance in real-world conditions and allowing for future capability upgrades.



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