



seeingmachines

GUARDIAN



DRIVERS GUIDE

GUARDIAN / GENERATION 3

GET HOME SAFELY WITH GUARDIAN!

GUARDIAN WILL PROVIDE REAL-TIME ALERTS IF IT DETECTS SIGNS OF DROWSINESS, MICROSLEEP OR DISTRACTION WHILE YOU DRIVE. IT WILL INTERVENE TO PROTECT YOUR LIFE AND THE LIVES OF OTHERS ON THE ROAD.

HOW IT WORKS



Guardian monitors your eyes, face and head movements for signs of drowsiness, microsleeep or distraction



If it detects an event you will hear an alert, see the relevant symbol and (depending on the event) your seat will vibrate*



A few seconds of video footage is sent to our 24/7 analysts to review and confirm the event in real time



If you are perceived to be at a high level of risk, we will notify your company immediately to keep you safe

* If a vibration motor is installed



EVENT TYPES

Drowsiness

Drowsiness events are detected when you reach above 7 on the Karolinska Sleepiness Scale (KSS), when travelling at or above a set speed threshold.

Distraction

Distraction events are detected when you look away from the road for 4 seconds or longer, when travelling at or above a set speed threshold.

Microsleep

Microsleep events are detected when your eyes are closed (or almost closed) for 1.5 seconds or longer, when travelling at or above a set speed threshold.

Field of View

Field of View (FOV) exception events are detected when Guardian cannot track your face for a set period of time. For example, if the in-cab sensor is covered.



GUARDIAN

GETTING TO KNOW YOUR GUARDIAN

WHEN THE GUARDIAN SYSTEM DETECTS DROWSINESS, MICROSLEEP OR DISTRACTION IT WILL:

- Warn you of the danger via different audio alerts and (if installed) seat vibrations.
- Notify you of the type of danger detected via symbols on the display screen.

1. DISPLAY SCREEN

Displays symbols for driver alerts and information on system functionality

2. STATUS INDICATOR LIGHT (LED)

Indicates whether the system is operating and protecting you

3. SPEAKER

Plays audio alerts to warn you of dangerous driving behaviour





AUDIO ALERTS

Drowsiness Audio Alert

This alert will sound when you are assessed to have entered a drowsy state. It is designed to act as a light ‘tap on the shoulder’ to warn you that you’re tired and, at a minimum, should consider taking a break to avoid moving into more dangerous fatigue states.

Microsleep Audio Alert

This alert will sound when you are assessed to have experienced a microsleep and is designed to wake you up. If the event is confirmed by a 24/7 analyst, your company will be notified immediately.

Distraction Audio Alert

This alert will sound when you are assessed to be distracted. It is designed as a reminder to focus your attention back on the road.

Critical Error

This alert will sound if the Guardian system enters an error state to warn you that there is an issue, and that Guardian is no longer able to detect and alert you while driving. This includes FOV exception events.

Note: If a vibration motor is installed, microsleep and distraction alerts are accompanied by seat vibrations of varying degrees.

VISUAL INDICATORS

STATUS INDICATOR LIGHT (LED)

The LED provides you with a visual indication of the current system state. It indicates whether Guardian is operational and guarding you, or if it has an error or is otherwise not operational.



Starting up (red to orange)

At ignition, the status light LED turns red before switching to orange as the system starts up. During this period (~2 minutes) you are not being guarded.



Preparing to guard (white)

Monitoring will begin above 10 km/h and it takes around 2 minutes to determine your impairment level. Audio and vibration* alerts are not yet active.



Guarding (green)

Guardian is active as the vehicle is above the speed threshold. You are currently being guarded and both audio and vibration* alerts are active.



Error (continuous red)

If the LED remains red for the vehicle's entire journey, it signifies a critical error with the Guardian unit. Contact your manager as soon as possible.



Blank state (not illuminated)

If the display screen is blank and the LED is not illuminated, this indicates a critical error with the Guardian unit. Contact your manager as soon as possible.

DISPLAY SCREEN SYMBOLS

Visual notifications are provided to you in the form of symbols on the display screen. These symbols both alert you and explain why you have been alerted.



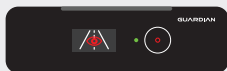
Drowsiness alert

This symbol means you have entered a drowsy state. It will disappear when you recover to an 'alert' state.



Microsleep alert

This symbol is used to notify you that a microsleep has been detected. It will disappear after 10 minutes.



Distraction alert

This symbol is used to notify you that you are distracted. It will show for 10 seconds, then disappear.



Error alert

This symbol means there is a serious error with the system (including FOV exception events). Contact your manager as soon as possible.



Blank state

If the display screen is blank and the LED is not illuminated, this indicates a critical error with the Guardian unit. Contact your manager as soon as possible.

* If a vibration motor is installed.

FREQUENTLY ASKED QUESTIONS

USING GUARDIAN

How do I set up Guardian?

Once installed, Guardian requires no additional set up. Each time you start the vehicle, Guardian will power up and will be ready to protect you within minutes. If there is a continuous red LED or error alert symbol (see page 5 for more information), the system is not working properly and should be reported to your manager as soon as possible.

How do I shut down Guardian?

Guardian shuts down almost immediately as the vehicle's ignition is turned off. Before shutting down, the system will check and, if authorised, apply software updates which can take several minutes to install. The LED will slowly pulse red if this is the case.

Does Guardian pose any health risks?

Guardian does not pose any health risks. Exposure to Guardian's infrared light has been tested by an independent expert and confirmed as safe for ongoing use. In fact, studies show that 104 hours of exposure from Guardian is equivalent to just one hour of sunlight.

Does Guardian work with safety glasses, sunglasses and spectacles?

Yes, Guardian works with most glasses. Some types of glasses (e.g. with thick rims or reflective coating) may confuse the system and are not recommended.

How do I clean Guardian?

A clean, lint-free cloth can be used to clean Guardian when required. Cleaning substances (such as dash cleaners) should not be used as they can damage the sensor. Please also note, Guardian is not waterproof. Water from cleaning or external sources (such as leaving a window open) may damage the system. Please contact your manager if there are any issues with the system, such as a continuous red LED or error alert symbol (see page 5 for more information), damaged cables, or if the in-cab sensor is not firmly affixed.

Remember: never use liquid cleaners, aerosol sprays, solvents, abrasive cloths, towels, paper towels or similar to clean Guardian.

EVENTS AND ALERTS

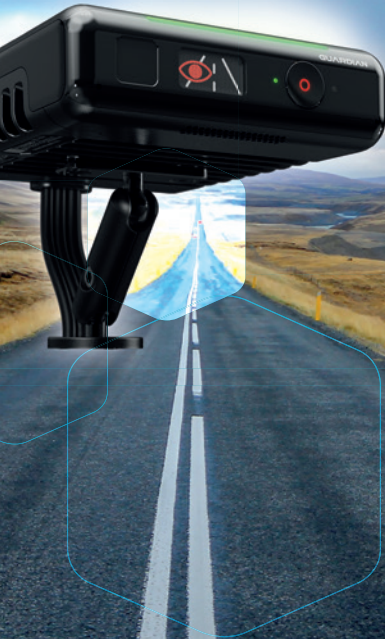
What happens when drowsiness is detected?

You will be alerted by an audible alarm and the drowsiness symbol will appear on the Guardian display screen (see page 5 for more information). Event information will be recorded, which can be viewed by your company's nominated contacts.

What happens when a microsleep is detected?

You will be alerted by an audible alarm, seat vibrations (if installed) and the microsleep symbol will appear on the Guardian display screen (see page 5 for more information). Footage will be reviewed by a 24/7 analyst, and if a microsleep event is confirmed, your company's nominated contact will be notified immediately.

FAQS CONT.



What happens when distraction is detected?

You will be alerted by an audible alarm, seat vibrations (if installed) and the distraction symbol will appear on the Guardian display screen (see page 5 for more information). Footage will be reviewed by a 24/7 analyst and recorded as an event, which can be viewed by your company's nominated contacts.

What happens if the in-cab sensor is covered?

If the in-cab sensor cannot track your face, you will not be protected by Guardian. This will be recorded as an event, which can be viewed by your company's nominated contacts.

DATA SECURITY AND PRIVACY

What can the in-cab sensor see?

All Guardian can see is your eyes, face and head. It doesn't see the passenger seat or the back of the cab. Additionally, Guardian cannot recognise who you are – it only tracks your facial features to determine fatigue or distraction.

What data is captured?

Guardian only records and transmits data when it detects a fatigue or distraction event. When an event is detected, Guardian will send the few seconds of video footage to a secure online portal along with specific details about the event, including your location, speed, distance travelled, duration of the event and which alerts were activated. This information can be accessed by your company's nominated contacts.

Can my manager remotely connect to the system and monitor me while I drive?

No. Please note Guardian is not a CCTV. This means that no one, under any circumstances, can connect to the system and watch or listen to you while you drive, or while you are in the cab.

Who can access my data?

Information can only be accessed by your company's nominated contacts via a secure web portal.

What about my privacy?

Seeing Machines respects your privacy. A Privacy Policy which sets out the types of data Guardian may collect about drivers, and how it is collected, used, disclosed and protected to comply with relevant privacy laws is available on our website: seeingmachines.com.



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SUPPORT PORTAL

guardian.servicely.ai/login

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