



seeingmachines

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**GUARDIAN**

# MANAGERS GUIDE

GUARDIAN / GEN 2



**PREVENT.  
PROTECT.**

**GUARDIAN BY SEEING MACHINES  
IS A REAL-TIME DRIVER FATIGUE  
AND DISTRACTION SOLUTION  
THAT IS SCIENTIFICALLY PROVEN  
TO REDUCE THE OCCURRENCE  
OF FATIGUE EVENTS BY 90%,  
COMBINING IN-CAB INTERVENTION  
WITH SUPPORT AND ANALYTICS  
SERVICES TO PROVIDE A COMPLETE  
SAFETY SOLUTION.**



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**GUARDIAN**

# HOW IT WORKS

## REAL TIME IN-VEHICLE



01

### EVENTS

Driver fatigue or distraction has been detected



02

### ALERTS

Seat vibration and audio alerts are activated to warn the driver



03

### ANALYSIS

Analysts review the footage and notify the manager

## CHECKLIST

### REAL-TIME FATIGUE & DISTRACTION DETECTION

Fatigue is a major cause of large truck crash fatalities globally with micro-sleeps and drowsy driving impairing a driver's ability to concentrate on the road ahead. At the same time, distracted driving has become a serious problem with drivers often attempting to multi-task using mobile phones and communicating with others.

### REAL-TIME IN CAB ALERTS [AUDIO / VIBRATION]

Guardian provides audio alerts along with powerful seat vibration which was designed in off-road environments including the mining industry, to wake the driver up.

### REAL-TIME FATIGUE & DISTRACTION EVENT VALIDATION

When a fatigue or distraction event takes place the data and a video capture of the event are sent to the Guardian Centre for review and verification by an analyst.

## POST-EVENT FEEDBACK



# 04

## ACTION

Manager can act upon the notification and determine the best course of action – taking a break, ending the shift...



# 05

## EDUCATION

Ongoing changed behaviour, driver coaching and improved processes implemented by the operator

### REAL-TIME INTERVENTION WITHIN MINUTES

Within minutes of a fatigue event being verified, the Guardian Centre will contact the fleet's nominated manager so that they can initiate an intervention plan.

### ADDITIONAL FEATURES:

- 24/7 monitoring and intervention by Australian/ US based Guardian Centre
- Location of the event
- Speed detection
- Validated Event Reports
- Daily / Weekly Activity Reports
- Dedicated account manager
- Data storage on Amazon

# HARDWARE COMPONENTS

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## **IN-CAB GUARDIAN SENSOR:**

Tracks eye closure and head position to provide protection against fatigue and distraction.

## **FORWARD-FACING CAMERA (IF INSTALLED):**

Captures footage of the road in front of the vehicle.



**VIBRATION MOTOR:**

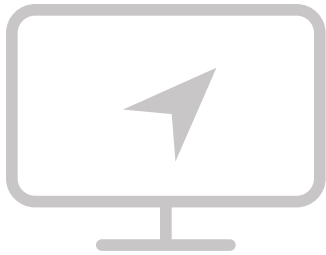
Vibrates the seat when fatigue or distraction is detected.



**COMPUTER/CONTROLLER:**

A fanless computer which is the heart of Guardian. All peripherals, and power, are connected to it.

# GUARDIAN LIVE



Guardian Live is an online portal that provides fleet managers with intelligent data. You can investigate the time of day fatigue and distraction events occur, the location and duration of all events, and the speed the driver was travelling. You can also review detailed footage of each event so that you have a clearer understanding of driver behaviour in your fleet.



Guardian detects event in-cab & alerts the driver



Data is sent to Seeing Machines database



Event is classified at 24/7 Guardian Center



View data in Guardian Live

Guardian Live requires a unique user logon and password.



## DATA SECURITY & PRIVACY

### What data is captured?

Our reports provide you with specific details about an event including:

- Duration of the event
- Speed of the vehicle at the time
- Distance travelled during the event
- Which alarms were activated
- GPS location
- Video footage of the driver together with footage captured by the forward-facing camera (if installed).

### Does Guardian store data?

Guardian has the capability to store approximately 24 hours of data (including driver and forward-facing footage) for review if required. During driving operation, new data will overwrite the old data after 24 hours. In order to preserve information, the data will need to be removed as soon as possible or the system disconnected until the data can be removed. Seeing Machines does not guarantee that footage will be recoverable, in particular where power to the controller is disrupted.

### Can I get a live feed of the driver?

No. Guardian respects driver privacy. It is not a CCTV.

## EVENT TYPES

**FATIGUE:** Fatigue events are detected through eye closure, when the driver closes (or nearly closes) their eyes for 1.5 seconds or longer when travelling at or above a set speed threshold.

**DISTRACTION:** Distraction events are detected through head rotation, when the driver looks away from the road for 4 seconds or longer when travelling at or above a set speed threshold.

**FIELD OF VIEW:** Field of View (FOV) exceptions are detected when Guardian cannot track the driver's face for a set period. For example, if the in-cab sensor is covered.

**MANUAL RECORDING:** Allows drivers to record forward-facing (if installed) and in-cab footage by pressing a button on the in-cab sensor.

## INSTALLATION

A dedicated team will work with your company to coordinate the installation of Guardian into your vehicles in accordance with an agreed installation schedule. Installations are only carried out by a certified installer, which ensures compliance with our installation process and safety requirements. Any work carried out by a non-certified technician may void warranty. Installation and basic maintenance training can be provided for your company's staff.

During the initial installation process you will also be shown with how to access your data in Guardian Live, how the system works in-cab, how to interpret reports and how to receive support.

## USAGE & FAQs

### What happens when a fatigue event is detected?

The 24/7 Guardian Center will review data from the event and act in accordance with your Fatigue Intervention Plan.

### What happens when a distraction event is detected?

The 24/7 Guardian Center will review data from the event and classify it accordingly. Distraction events can be viewed when you log in to your Guardian Live account.

### What happens if the in-cab sensor is covered?

If the in-cab sensor is covered or the driver's face cannot be tracked, Guardian will register an event called a 'Field of View'. This event can be reviewed on Guardian Live. You can also request immediate email notifications of these events, if required.

### Does Guardian pose any health risks?

Guardian does not pose any health risks. Exposure to Guardian infrared pods has been tested by an independent expert and has been confirmed as safe for ongoing use.

### Does Guardian work with safety glasses, sunglasses & spectacles?

Yes, Guardian works with most glasses. We have conducted extensive testing of glasses and safety glasses. While each case is unique, we can advise you on our recommendations for glasses. Some types of glasses (e.g. with thick rims or reflective coating) may confuse the system and are not recommended.

## SUPPORT

Technical support is available 24/7 through Seeing Machines' 24/7 Support Center which can be contacted through any of the channels below:

### ZENDESK

You can submit and track your support requests:  
[seeingmachines.zendesk.com](https://seeingmachines.zendesk.com)

### EMAIL

[support@seeingmachines.com](mailto:support@seeingmachines.com)

### SUPPORT LINE

**USA (toll-free)** +1 855 377 3744  
**Australia** +61 2 6108 4313  
**Mexico** +1 520 838 8138  
**UK** +44 808 164 5774

## ACCOUNT MANAGEMENT

To ensure your experience with Guardian is as seamless as possible you will receive ongoing:

- Advice on the use of Guardian
- Ongoing support after installation
- Ongoing support for additional roll-outs and upgrades
- Access to around-the-clock support team

NEVER USE ABRASIVE CLOTHS, TOWELS, PAPER TOWELS OR SIMILAR. NEVER USE LIQUID CLEANERS, AEROSOL SPRAYS OR SOLVENTS.



## MAINTENANCE

Regular basic maintenance ensures that the optical parts of the in-cab sensor and forward-facing camera are free from dirt, dust and greasy substances, and that they remain correctly oriented. A clean, lint-free cloth is required to clean the lenses on the in-cab sensor and forward-facing camera.

### Here are some maintenance tips:

- Check the tightness of all bolts/ attachments of the unit and peripherals
- Physically inspect the attachment for the forward-facing camera to ensure that it still has good contact with the mounting surface
- Check the alignment of the in-cab sensor by testing the tightness of the mounting screws
- Use a lint-free cloth to wipe the in-cab sensor and remove any dirt or grease

## HARDWARE WARRANTIES

For complex hardware issues that cannot be resolved by the 24/7 Support Center, the return merchandise authorisation (RMA) policy allows you to return any faulty equipment for engineering review.

RMA cases will be based on advice from a certified technician and the appropriate forms will be provided to you via email.

When the equipment has been received, the unit will be assessed to identify the cause of the issue.

If the equipment is under warranty the item will either be repaired or replaced. Warranty does not cover any accidental or intentional damage to the hardware or other factors outside Seeing Machines' control.

Warranty is also void if there has been water damage, if the hardware has not been installed or maintained by a certified technician, or if the vehicle is not registered for use on public roads.



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