AutoSense DRIVING SAFETY | seeing machines | GUARDIAN

GUARDIAN

GENERATION 2

DROWSINESS DETECTION ALERT WARNING

Fatigue is the biggest killer on roads, globally. When a driver is drowsy, or worse has a microsleep, the risk of a fatal event increases significantly as they are simply unable to concentrate on the road ahead.

Guardian Generation 2 is setting a new standard in drowsiness detection.

How it works

Guardian Generation 2 with early drowsiness detection continuously monitors and evaluates a driver's level of drowsiness based on the Karolinska Sleepiness Scale (KSS), warning them before they reach the critical state of microsleep.

The new light bar illuminates unobtrusively when a driver is displaying early signs of fatigue, allowing them to take appropriate action to keep themselves safe.

Data sent to the secure Guardian Live web portal also ensures fleet operators always have a comprehensive and continuous view of their driver's fatigue state.

Should a fatigue event occur, Guardian will still intervene with audio, visual and haptic alerts however the pre-emptive warning is designed to avoid drivers reaching this increasingly dangerous level of tiredness.

Designed and independently assessed to meet the European Commission's General Safety Regulations for Driver Drowsiness and Attention Warning (DDAW) systems.

Upgrade today!

The light bar is easily attached to the top of the existing Guardian Generation 2 in-cab sensor, using its existing screws. It redirects the light from existing LEDs in the in-cab sensor and accentuates this so it's visible to the driver.

The technician will then use a dongle to perform the required software update. Overall, the upgrade takes approximately 30 minutes per device and is available for $159+GST per unit.

*Terms and conditions: Upgrade offer is a one off fee of $159+GST per unit with any new or existing Guardian unit. Seeing Machines terms and conditions apply.

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Frequently Asked Questions

How does Guardian Generation 2 with drowsiness detection work?

The system continuously monitors and evaluates a driver's level of drowsiness and intervenes in real time if they are displaying signs of fatigue, before they tire further and potentially have a microsleep.

How is a driver's drowsiness level measured?

Guardian tracks a driver's eyes, mouth and head movements and uses artificial intelligence to determine their level of drowsiness is determine, based on the Karolinska Sleepiness Scale (KSS),

Can the lightbar see the driver?

No, the light bar is not a camera.

Is the lightbar distracting?

No, the light emitted is a gentle pulsing glow not a bright, rapid flashing.

Will the lightbar damage the driver's eyes?

No, the light bar uses frosted clear plastic to refract the light from the low powered LEDs on top of the Guardian Generation 2 in-cab sensor so that it is visible to the driver. The LED light is accentuated and softened by the frosted plastic.

Is drowsiness an event tracked in Guardian Live?

Initially, drowsy events will be shown in the trip timeline. This will be enhanced with future Guardian Live releases to provide customers with a better view of their driver's state and risk levels.

Do fleet operators have a real-time view of drowsiness levels?

Yes, if the driver's state is determined to be drowsy, a notification will appear in the trip timeline the moment the event is received. No alerts are sent directly to customers.

Is drowsiness an event verified by the Guardian Centre?

No, these drowsiness events will not be sent to the Guardian Centre for verification.

What should a driver/fleet operator do when drowsiness is detected?

The driver should self-assess how tired they are and consider if they need to have a rest or break in accordance with their company policies, and if so, start to look for an appropriate place to have that break. Ultimately it will be up to the operator to determine what process they want the driver to follow if a drowsy detection occurs.

How much does the upgrade cost?

To add the DDAW feature to an existing Guardian unit costs $159+GST per unit.

What does the upgrade consist of?

The upgrade includes fitting a light bar to your existing Guardian Generation 2 in-cab sensor and installing a software update with cutting edge algorithms to ensure drivers are alerted before they reach the critical stage of microsleep.

How long does the upgrade take?

The installation of the light bar and software update will take approximately 30 minutes.