

TECHNOLOGY FOR PEOPLE IN NOISE

Workplace Noise Management
and Intelligent Hearing Protection

GETAC
SELECT

EAVE



EAVE - INTELLIGENT NOISE CONTROL SYSTEM

THE TOTAL SOLUTION FOR MANAGING WORKPLACE NOISE

The EAVE solution consists of FocusLite smart ear defenders that provide hearing protection and situational awareness while at the same time collecting noise data and the Peak online platform for insights and analysis of the noise data.

CREATING SAFER WORKPLACES

Helping you maintain a safe and productive work environment using advanced hearing protection and noise analytics.





MEASURE

Monitor site-wide noise levels
whilst tracking individual workers'
noise exposure



PROTECT

Provide day-long hearing
protection, set, and meet
noise-exposure targets



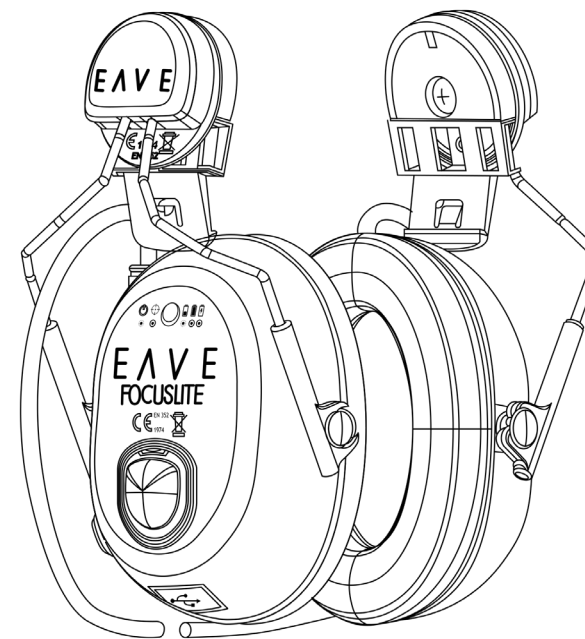
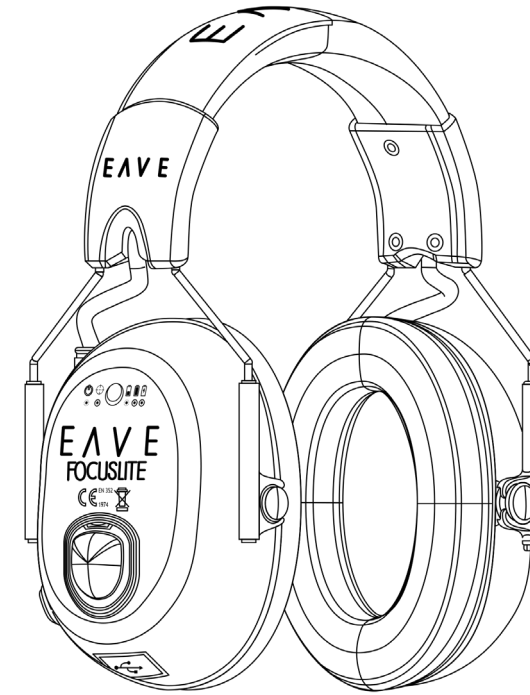
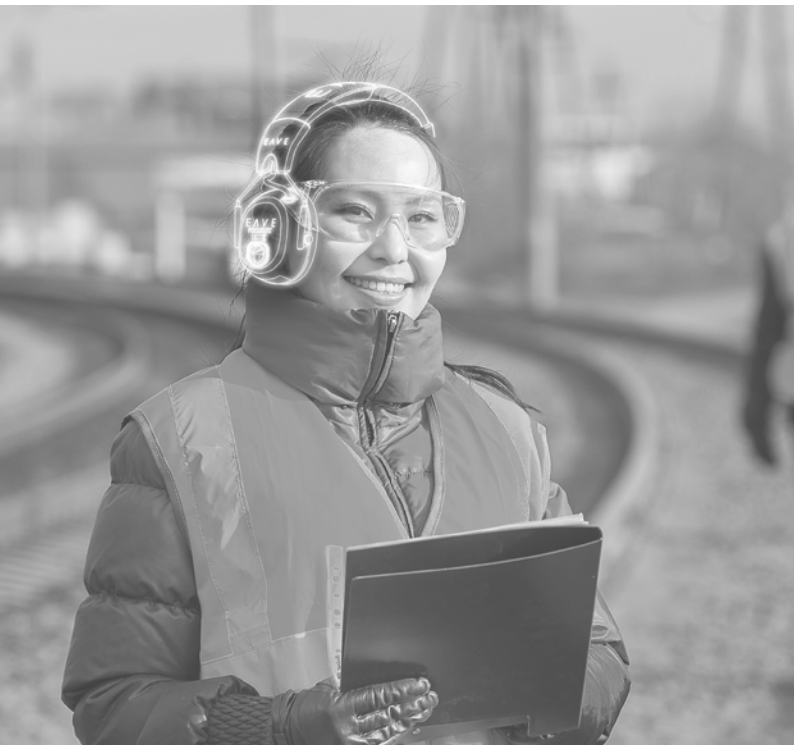
ANALYSE

Use data to understand how noise
affects your workplace and increase
productivity with data-backed decisions



ENHANCE

Ensure safe onsite communication,
full situational awareness and reduce
hearing-related insurance claims



PROTECT YOUR WORKERS AND SAFELY MANAGE NOISE WITH EAVE

Create a hearing-protection culture

Prioritise worker-health by providing the most
advanced noise-reduction solution on the market.

Monitor individual risk

Track each worker's noise exposure to keep them
within safe parameters.

Identify noise risk

Understand where noise is a problem onsite and
take steps to protect workers from over-exposure.

Improve site safety

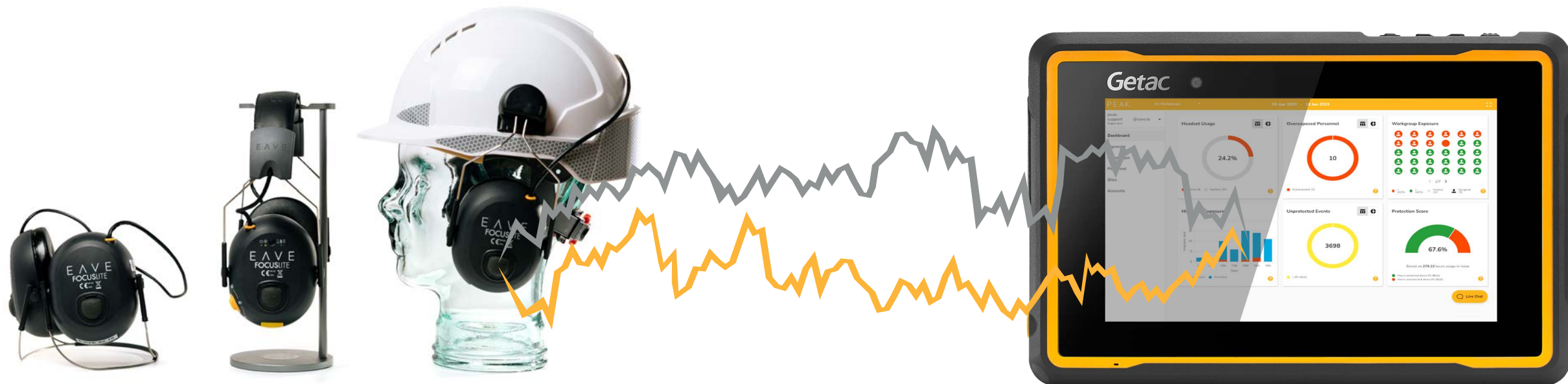
Allow workers to retain situational awareness and
safely communicate with others onsite while still
wearing ear defenders.

Reduce claims

Minimise occupational deafness claims by offering
advanced hearing safety at source.

Enhance productivity

Noise-protection together with unencumbered
communication keeps workers productive
throughout the day.



FOCUSLITE HEADSET

Lightweight, comfortable and durable ear defenders

- Microphones continuously measure internal and external noise levels
- Bluetooth link to transmit noise data to "Peak" for analysis
- Built-in speakers and microphones allow communication and full situational awareness
- The FocusLite is available in Headband and Helmet mounted headsets

PEAK PLATFORM

Noise-monitoring dashboard

- Analytics and reports based on the data
- Visualisation of each employee's individual exposure to noise levels
- Mapping of workspace noise levels
- Management tool providing insights for corrective actions and improvement



01



FOCUSLITE

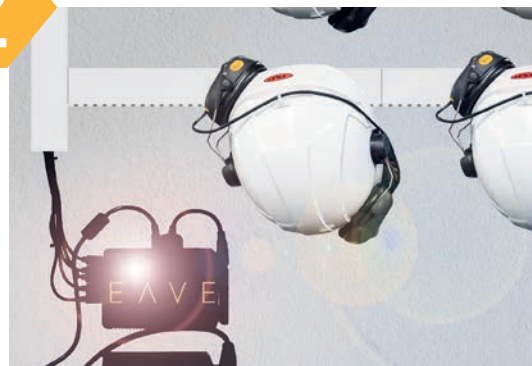
The FocusLite ear defenders collect noise data from inside and outside of the earcup. This data is then automatically uploaded to Peak when near a SmartHub.

We collect both measurements to identify the users' external noise exposure against the measure of their internal protection.

Beacons are small low energy devices that capture location-based data for the Noise Map functionality on Peak.

The FocusLite headset records the noise levels and location of the beacons when in proximity. This data is uploaded to Peak, along with the user's exposure data.

02



SMART HUB

Smart Hubs are the internet bridge devices that our defenders use to send their data to the Peak platform.

The FocusLite connects to the Smart Hub over Bluetooth when they are in range.

The Smart Hub is placed in a gateway location where personal protective equipment is stored and where the FocusLite headsets are charged.

RUGGED DEVICE

Our strategic partners at Getac provide a comprehensive range of rugged computing solutions for specialised industry applications. These devices can be used to both share and analyse data on the Peak platform in extreme operating environments.

03



PEAK

Data for each user is uploaded and information is displayed on the Peak dashboard.

Peak can show you if hearing protection was properly used when required. It allows you to filter for worksites, teams and individuals to identify necessary corrective actions and possible improvements. Peak shows noise overexposures and if legal limits have been exceeded.

Using the beacon technology, you can see where noise hotspots are on your sites. By identifying these, you are better positioned to reduce or eliminate sources of excessive noise or to adapt workers behaviour in these areas.

04



ANALYTICS

Peak enables you to see and analyse the noise information to better understand what's happening onsite and to take appropriate actions. With notifications you will receive SMS and Email alerts about workers noise overexposures.

Examples of actions resulting from using the Peak dashboard and notifications are:

- Identifying and remedying incorrect use of FocusLite hearing protection.
- Adjusting shift patterns for workers to keep those identified as high risk below their weekly overexposure levels.
- Adjusting site capacity when very loud machinery/equipment activities are occurring.
- Swapping work areas for those who repeatedly are identified as at risk of overexposure.
- Changing routes to avoid people frequently passing high noise area's.
- Identify, reduce or eliminate sources (equipment) of high noise.

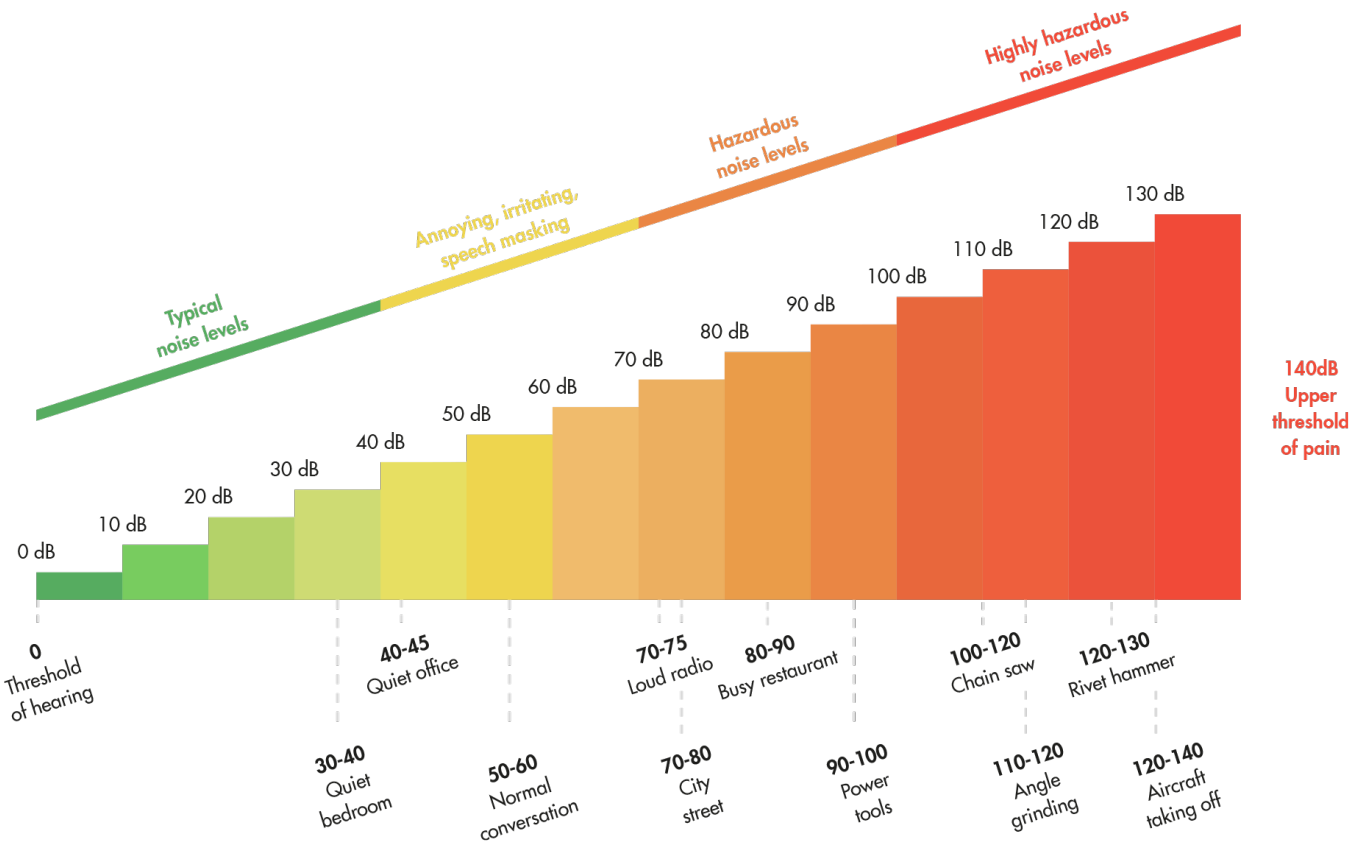
WHAT ARE THE RISKS OF CONTINUED EXPOSURE TO NOISE?

Exposure Level per NIOSH REL	Time to reach 100% Noise Dose
85 dB(A)	8 hrs
88 dB(A)	4 hrs
91 dB(A)	2 hrs
94 dB(A)	1 hr
97 dB(A)	30 mins
100 dB(A)	15 mins
103 dB(A)	7 mins 30s
106 dB(A)	3 mins 40s
109 dB(A)	1 min 50s
112 dB(A)	55s
115 dB(A)	<28s

Continued exposure to high levels of noise such as occurs in a variety of industries, damages the delicate hearing mechanism within the ear causing hearing damage (such as loss of hearing acuity or tinnitus) and later, deafness.

The higher the level of noise, and the longer individuals are exposed to it, the greater the risk.

Deafness has also been linked to other health problems such as dementia and high blood pressure.



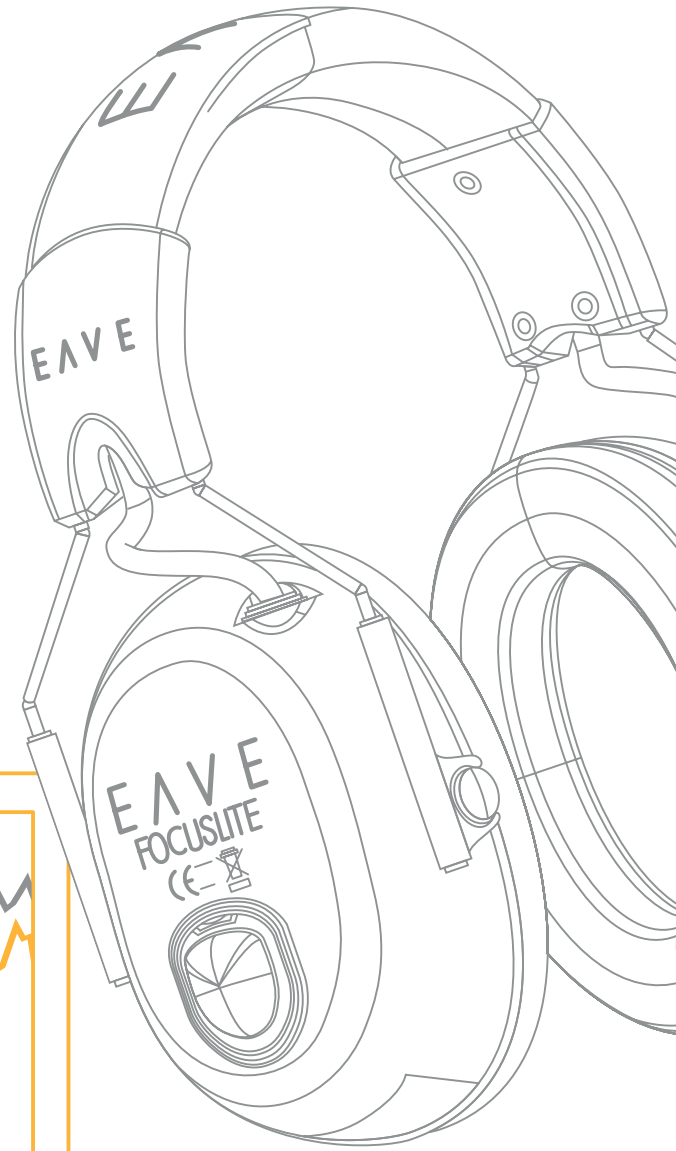
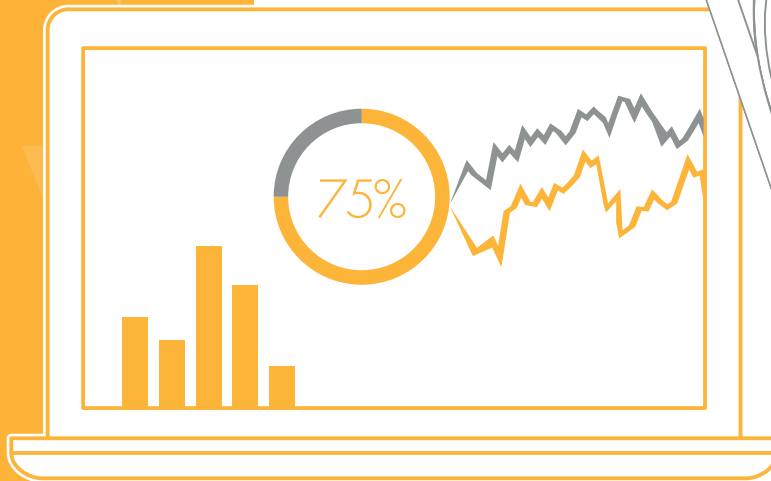
WHAT CAN EAVE DO FOR YOU?

Once hearing loss sets in, there is sadly no cure. The good news is that long-term hearing damage can be prevented if effective noise control measures are taken. Such measures include protecting individual workers' ears with a high-quality headset, controlling the noise at source, and managing each employee's exposure levels.

The easiest and most effective way to do this is to implement Eave.



EAVE



FocusLite Spec Sheet

Battery Type:	Rechargeable (Lithium Polymer)
Function:	Over-ear hearing protection with hear through (level dependence) and noise monitoring
Hearing Protection Style:	Headband-Mounted Earmuffs Helmet-Mounted Earmuffs
Microphone Class/Type:	Digital MEMS Microphone
Number of Microphones:	4 (2 external, 2 internal)
Product Colour:	Grey
Product Series:	FocusLite
Recommended Application:	High Noise Environment
Recommended Industry:	Construction/Manufacturing
Recommended Helmet:	JSP EVOLite (others may also be compatible)

Document Version 1.0

For more details (including conformity assessment information), please refer to the technical datasheet for the relevant FocusLite version. Supplied upon request.

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