

Workplace hearing loss
is preventable.



All you have to
do is listen.



Know precisely. Protect personally.

The new QuietDose™ system from Howard Leight® provides the ultimate in accuracy for assessment of personal workplace noise risk.




Measure the noise your workers hear. All of it.

Existing noise measurement devices provide information based on ambient area assessments. Conclusions from these data are based on estimates, assumptions and best guesses, rather than a truly accurate analysis of the sounds that impact workers' ears.



Easy-to-connect snap-in 3-pin adapter.

 Exposure Smart Protector® [ESP] Dosimeter

Two-channel noise dosimeter measures cumulative noise exposure dose. LEDs alert user to excessive instantaneous and cumulative noise exposure in real time.

- 2.5" w x 3.25" h x .75" d
- Hard plastic for durability
- Belt clip on reverse

Harness flex point.


QuietDose™ is a new and essential addition to any workplace Hearing Conservation Program. Using a highly refined method of sound capture, QuietDose provides previously unattainable and highly precise data points that allow both workers and management to make the smartest, best-informed hearing protection decisions.



Microphone Harness

Transmits data from Eartips to ESP Dosimeter. Multiple flex points allow ease of use while performing tasks.

Threaded Eartips for tight, secure, comfortable fit. Variety of styles available.



Eartips | Earmuffs

Innovative in-ear microphones thread snugly inside QuietDose Eartips to record exact, real-time noise levels, providing — and evaluating — hearing protection for multiple QuietDose users.

Earmuff model also available.

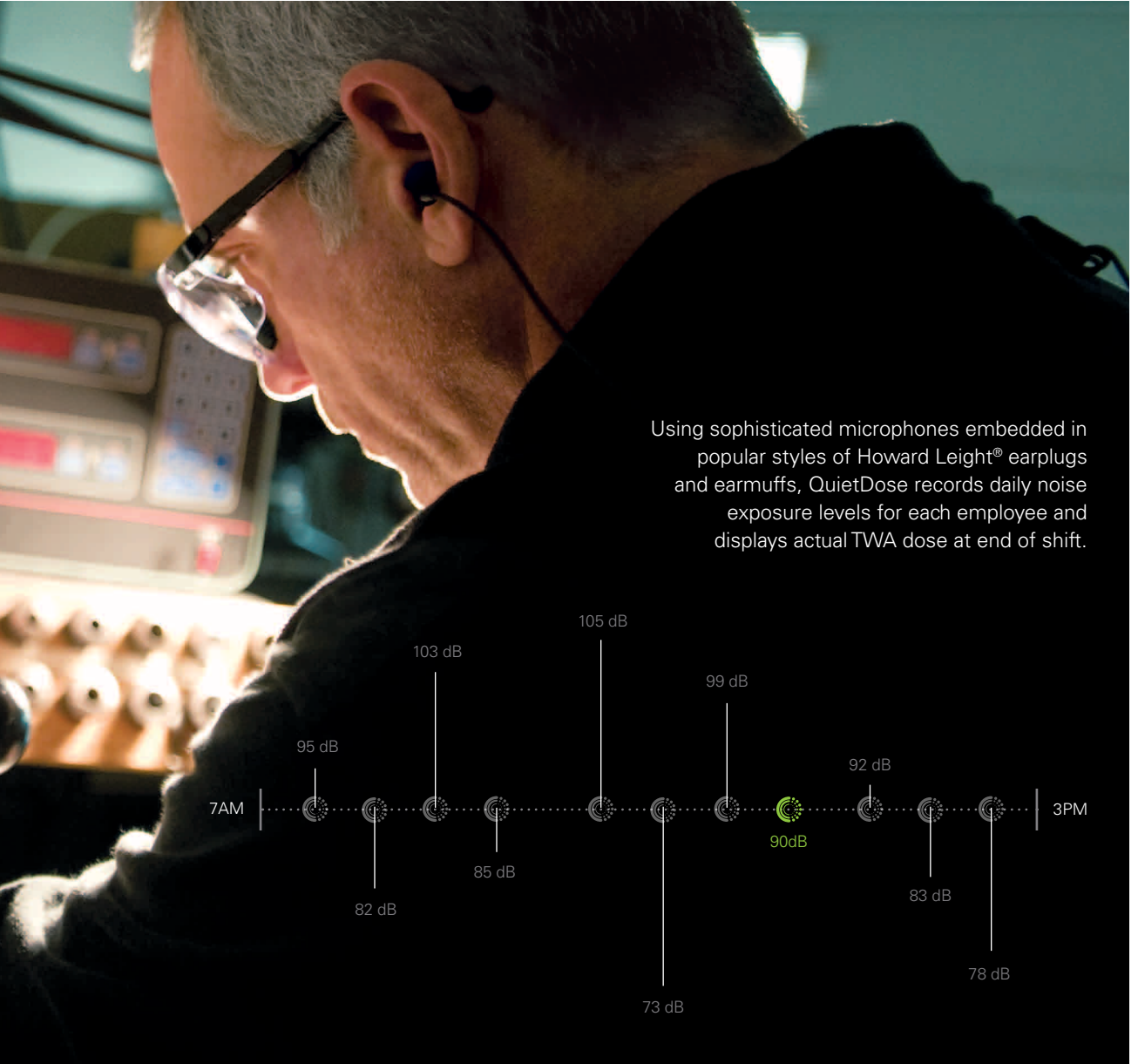
Close enough just isn't good enough.

QuietDose™ is the first noise level monitoring system that uses in-ear dosimetry to measure every sound that reaches the user's eardrum. Dramatically more precise than existing area or personal sampling devices currently in use, QuietDose data equips safety managers to:



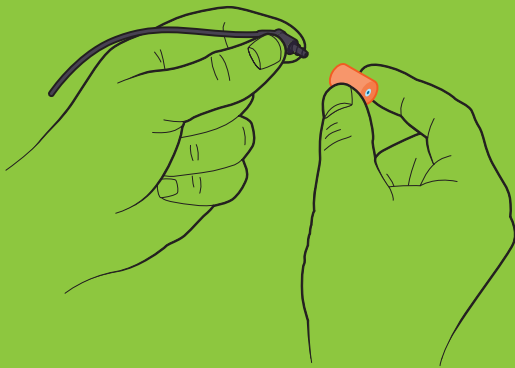
- determine whether workers are using their earplugs or earmuffs correctly
- track and address the potential of noise-induced hearing loss (NIHL) in real time
- potentially eliminate dual protection
- provide workers more appropriate hearing protectors
- streamline worker deployment by matching shift hours with proper protection more accurately

Over an 8-hour Time Weighted Average (TWA), 90 dBA is the Permissible Exposure Limit, according to current OSHA standards.



Precise placement drives in-depth analysis.

QuietDose™ eliminates guesswork by eliminating uncertainty. Using microphones embedded in special Eartips based on Howard Leight products, QuietDose provides real-time assessments rooted in specific, personalized and definitive noise level measurements beyond the ability of any currently available systems.

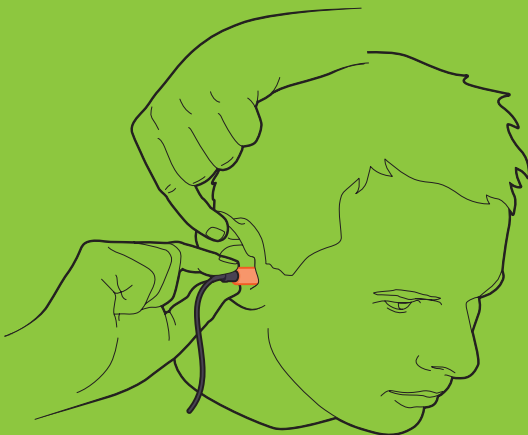
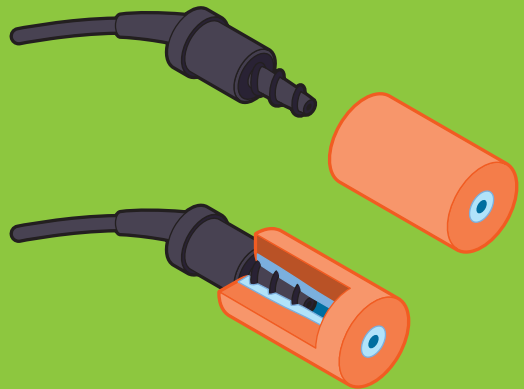


Assembly

The accuracy of QuietDose is driven by its sophisticated in-ear placement. Specially-designed microphones fit inside Howard Leight® Eartips — customized versions of popular models of Howard Leight earplugs and earmuffs.

Interior view

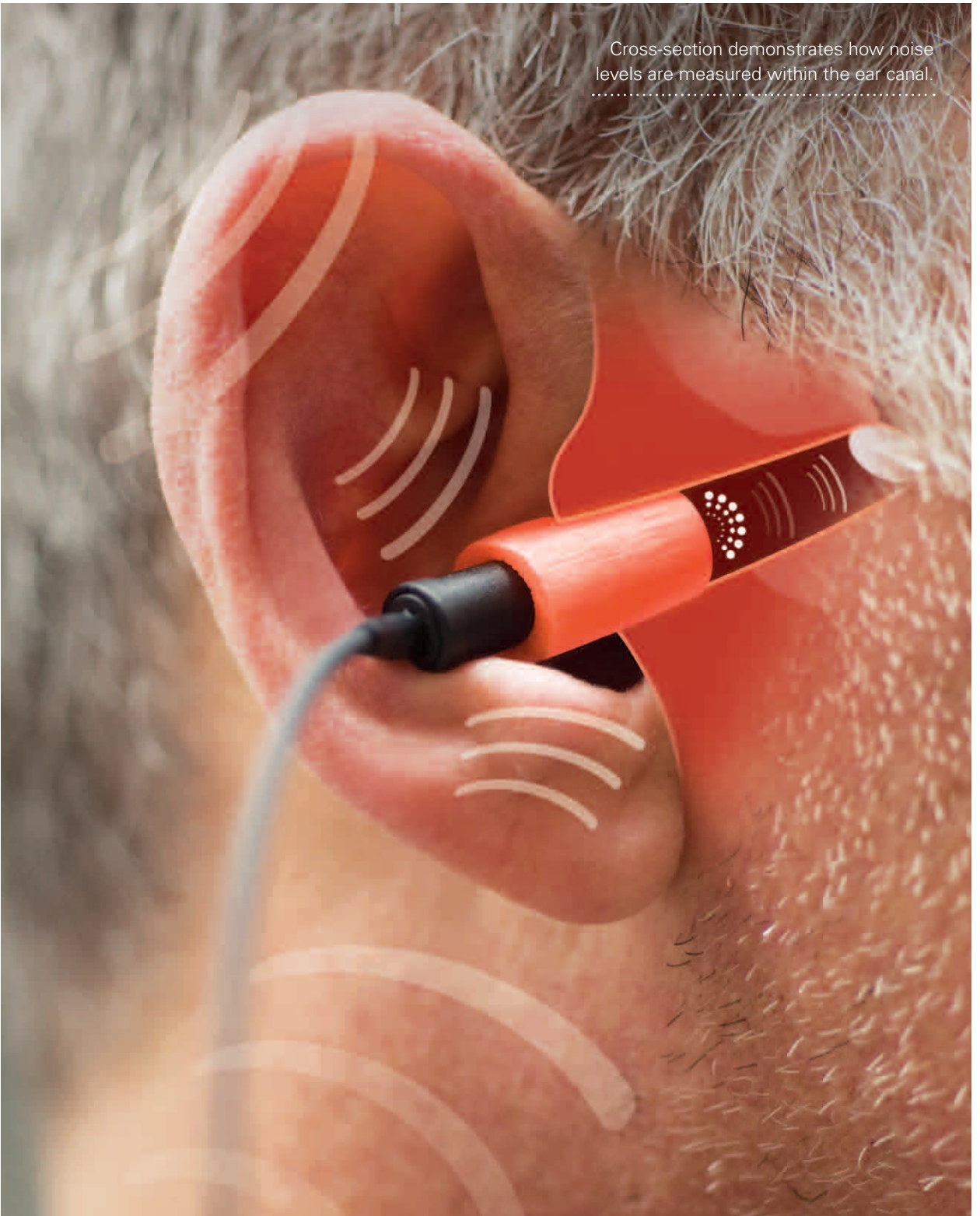
QuietDose provides a detailed, truly personalized measurement of what users hear when they are wearing their hearing protector.



Insertion

When positioned properly by the user, these microphones measure the protected noise levels in each ear.

Cross-section demonstrates how noise levels are measured within the ear canal.



QuietDose Application Protocol.

QuietDose can solve several challenges in your Hearing Conservation Program.

Category	Description	Key Actions
Documented Noise-Induced Hearing Loss/Standard Threshold Shift [STS]	Annual audiograms confirm and document a significant decline in hearing [OSHA Standard Threshold Shift] long after it occurs.	QuietDose™ provides real-time feedback to workers and managers. STS and At-Risk workers who approach the noise-dose limit on any given day are immediately notified, and corrective action can be taken before the next workday.
At-Risk Workers	Workers who have been identified as “at-risk” of further hearing loss detected through annual audiograms.	
Worker Training & Sampling	Train workers on the proper use of hearing protectors and tactics to achieve safe exposure levels during their entire work shift.	Real-time monitoring and feedback provides each worker with quantitative data for assessment, reinforce the importance of hearing loss prevention and personal strategies to prevent overexposures.
Dual-Protection/Extreme Noise Exposures	Due to extreme noise hazards [instantaneous levels of >115 dBA or TWA > 105 dBA], workers are required to wear dual protection [earplugs and earmuffs] and may be limited in their time allotted in certain environments.	Determination of acceptable noise dose protection can eliminate the need for dual protection and enhance the effective time-deployment of workers in some extreme noise environments.
Engineering Controls	Companies may consider a significant financial investment into engineering controls to reduce specific noise levels.	Compare overall costs between implementing a QuietDose program for a group of workers versus capital improvements to engineer out noise. Most likely, the cost to monitor employee noise dose is significantly lower and also takes less time to implement than engineering controls.

What's offered:

- Exposure Smart Protector® [ESP] Dosimeter
- Microphone Harness
- Eartips | Earmuffs
- Infrared (IR) Reader
- Software

Ready to hear more?

Contact your Sperian sales rep, or visit www.howardleight.com/quietdose for more details on how QuietDose can bring you and your employees closer to the prevention of occupational hearing loss.





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