



Sensear   
SAFETY THAT SPEAKS VOLUMES

# PRODUCT OVERVIEW

# WHAT'S HEARING PROTECTION WORTH?



The numbers speak volumes...

**30 million**

U.S. workers are exposed to noise levels high enough to cause irreversible hearing loss.

*National Institute for Occupational Safety and Health (NIOSH)*

**More than 20,000**

workplace hearing loss cases occur annually, many resulting in permanent hearing loss.

*U.S. Bureau of Labor Statistics*

**\$242 million**

estimate in workers' compensation annually. Occupational hearing loss is one of the most common U.S. work-related illnesses

*Centers for Disease Control and Prevention (CDC)*

**What is hearing protection worth to your business?  
To your employees?**

# WHO IS SENSEAR?



## Communication solutions for high noise environments

**A global leader in designing & manufacturing best-in-class over-the-ear and in-ear speech enhancement/noise suppression devices.**

**For use with two-way radio and Bluetooth communication.**

Founded in 2006 through a partnership with the University of Western Australia and Curtin University, Sensear's patented SENS™ technology simultaneously enhances speech and suppresses background noise. Users can verbally communicate, protect their hearing, and still maintain 360° awareness of their surroundings. Ideal for noisy environments like oil, gas, petrochemical, mining, data centers, construction, heavy manufacturing, and other industrial workplaces.

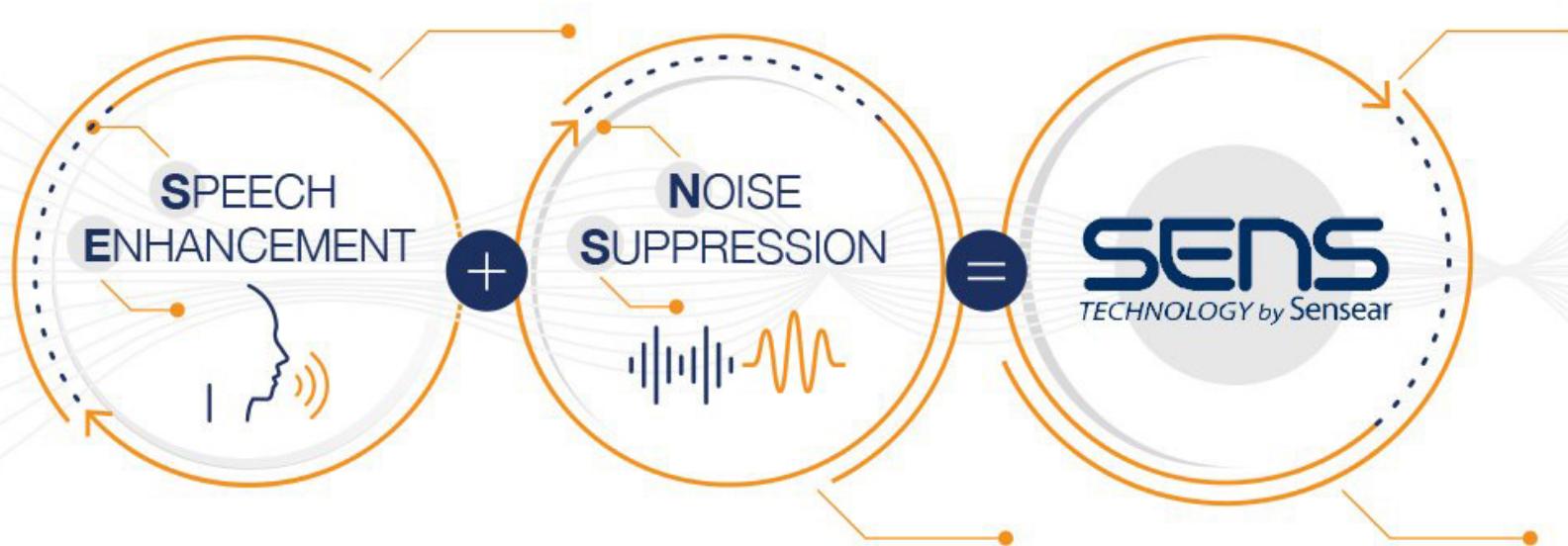
A wide-angle aerial photograph of a massive open-pit coal mine at sunset. The sky is a gradient of orange and yellow. In the foreground, a large piece of mining machinery, possibly a bucket wheel excavator, is visible. Two tall, dark industrial structures stand prominently in the middle ground, with conveyor belts stretching between them. The terrain is a mix of brown earth and grey rock, with the mine's edges showing distinct levels. In the distance, a line of wind turbines is visible on the horizon.

SENSEAR: THE WORLD'S ONLY HEADSET  
MANUFACTURER WITH SENS TECHNOLOGY  
FOR SPEECH ENHANCEMENT AND NOISE  
SUPPRESSION.

A TRUE GAME-CHANGER FOR ANY HIGH-NOISE ENVIRONMENT.

# SENS Technology

Speech Enhancement + Noise Suppression



Thanks to 360° situational awareness, all your senses work better together. You can hear. You can see. You can understand. You can respond. It is the ultimate combination of communication, technology, and safety.

**SENS technology offers:** 360° Situational Awareness | Safe Communication | Hearing Protection

A photograph of an oilfield at sunset. The sky is filled with orange and yellow clouds. In the foreground, several oil pumps are silhouetted against the bright sky. A tall derrick structure is visible on the left. The overall scene is industrial and dramatic.

**SENS PROTECTS WORKERS AND BUSINESSES.  
IT SUPPORTS WORKPLACE SAFETY IN EVEN THE  
LOUDEST CONDITIONS AND IT SPEAKS VOLUMES.**

**SAFETY THAT SPEAKS VOLUMES**

# METHODS OF COMMUNICATIONS



Connects with 2-way radios either via Bluetooth or a cable (cables are specific to make and model of radio).



Connects to either cell phone or tablet using Bluetooth.



Utilize “headset to headset” communication using short range FM frequency.

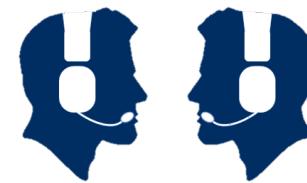
Distance between 50' to 150'

# TODAY'S CONNECTED WORKER



**No matter the device or platform Sensear has the connection to support you!**

**From Bluetooth, two-way radio, short range, and face-to face**



# HEARING PROTECTION CATEGORIES



**SMART PLUG**



**SMART MUFF**



**REALWARE GLASSES**



# SMART MUFF STYLES



HEADBAND



BEHIND THE NECK



HELMET MOUNT



# SMART MUFF STYLES



## Dual Protection: SM1P DP – Extreme Noise Series

Double Protection  
Certified Intrinsically Safe  
360° Situational Awareness  
Bluetooth®  
Headset-to-Headset Communication  
Sound Level Limit

Two-Way Radio Compatible  
24-Hour Battery Life  
Noise-Cancelling Boom Mic  
3 Wearing Styles  
USB Programming



Protects Hearing



Face-to-Face Communication



360° Situational Awareness



Two-way Radios



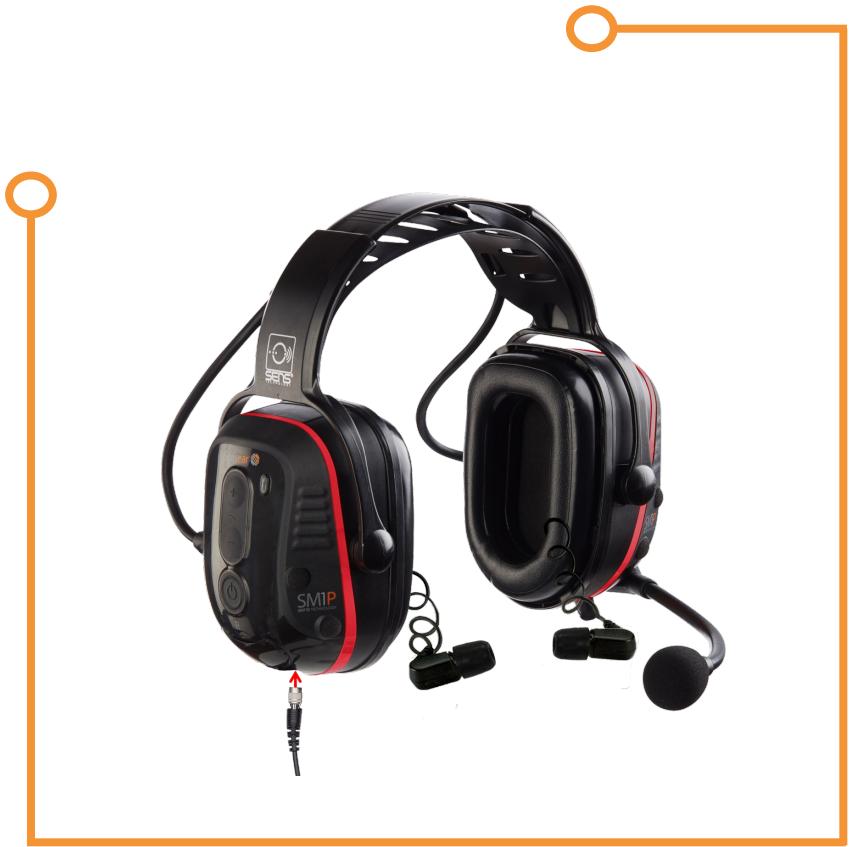
Intrinsically Safe



Bluetooth®



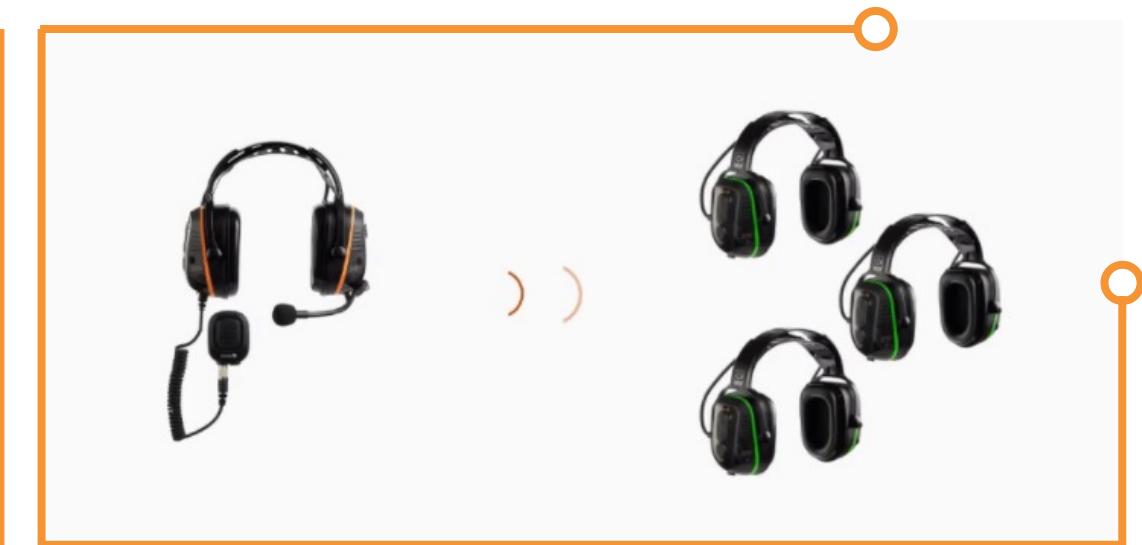
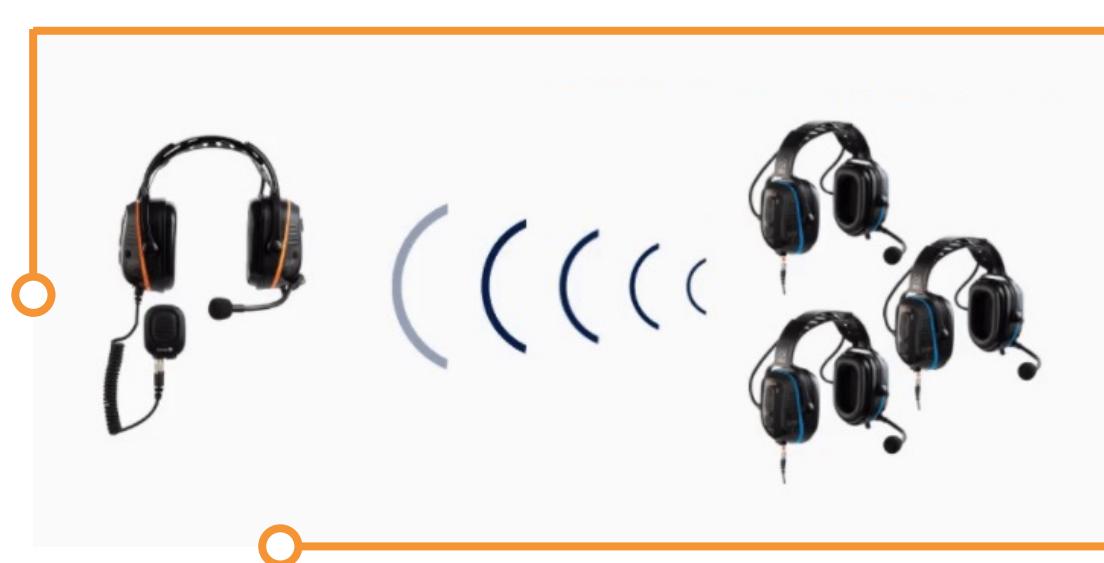
Short-Range Communication



# TOURING & TRAINING



**Leaders and students both talk**  
**Leaders talk — students only listen**



# MUFF VERSIONS



	SM1R	SM1B	SM1P	SM1P-SDP/EXDP
<b>Connection type</b>	Radio (powers HS)	Radio	Radio/BT/SR	Radio/BT/SR
<b>NRR rating (HMIBTNIHB)</b>	23/24/27	23/24/27	23/24/27	36
<b>Power source</b>	Requires radio for power	Rechargeable lithium	Rechargeable lithium	Rechargeable lithium
<b>Intrinsic safety option</b>	IS	NA	IS/Ex	IS/Ex
<b>Volume limiter</b>	82 dBA	82 dBA	82 dBA	82 dBA
<b>VOX</b>	Radio with VOX feature	Radio with VOX feature	Radio with VOX feature SR option	Radio with VOX feature SR option
<b>Cable required</b>	Yes	Yes	Optional	Optional

BT = Bluetooth; SR = Short Range; HM = Helmet Mount; HB = Headband; BTN = Behind the Neck; NRR = Noise Reduction Rating; VOX = Voice Activation

# SMART PLUG VERSIONS



	SP1RE	SP1RM	SMART PLUG – FULL
<b>Connection type</b>	Radio (powers HS)	Radio (powers HS)	Radio/BT/SR
<b>NRR rating (HMIHBIBTN)</b>	31	31	31
<b>Form factor</b>	In-ear	Boom mic	In-ear
<b>Power source</b>	Requires radio for power	Requires radio for power	Rechargeable lithium
<b>Intrinsic safety option</b>	IS	IS	NA
<b>Volume limiter</b>	82 dBA	82 dBA	82 dBA
<b>VOX</b>	Radio with VOX feature	Radio with VOX feature	Radio with VOX feature SR option
<b>Cable required</b>	Yes	Yes	Optional

BT = Bluetooth; SR = Short Range; HM = Helmet Mount; HB = Headband; BTN = Behind the Neck; NRR = Noise Reduction Rating; VOX = Voice Activation

# PROGRAMMING TABLET



## Tablet allows capability to easily program features into headsets

The hands-free “Push-To-Talk” (PTT) latching feature allows you to hold the channel open without holding the PTT button. You can preset configurations and push/clone these features to your headsets at a push of a button. Additionally, the tablet can be used to perform remote diagnostics and can update your firmware.

# INDUSTRIES



MANUFACTURING



MINING

# INDUSTRIES



**DATA CENTERS**



**OIL AND GAS**

# INDUSTRIES

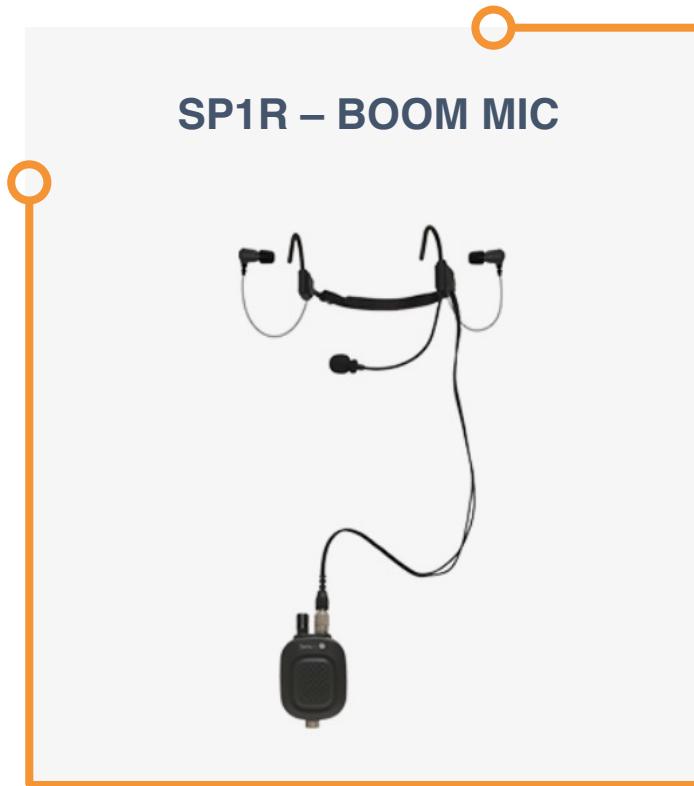


TRANSPORTATION



SHIPPING AND MORE

# SMART PLUG STYLES



# DEVICE HYGIENE



EARMUFF REPLACEMENT



MUFF ABSORBENT PADS



WINDSOCK REPLACEMENTS



FOAM TIP REPLACEMENT



# SENSEAR HEADSETS: RUGGED & DURABLE



**Sensear headsets are used through-out the world in some of the harshest, noisiest, and rugged environments**

IP Rating: IP54

IS Approved for Hazardous Locations

Operating Temperature:  
-20°C to +60°C (-4°F to 140°F)



# Speech Enhancement



## Noise Suppression



 **SENS**  
TECHNOLOGY by Sensear

## Thank you!

Sensear   
SAFETY THAT SPEAKS VOLUMES