



||| SAFETY THAT SPEAKS VOLUMES

# workplace

## hearing protection



Product Catalog

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# Sensear Drives a New Approach to Hearing Protection and High-Noise Communication

## The Problems Workers Face in High-Noise Environments

Compliance. Communication. Safety. A noisy environment is one of the main stress triggers for employees and can contribute to reduced productivity. In high-noise environments, sounds coming from machinery or equipment produce high or extreme noise levels that can adversely affect communication between workers. Common practices like shouting at others or asking them to talk loudly are barely effective. If employees cannot alert each other, accidents can occur and cause injuries. As OSHA requires workers to wear hearing protection in environments where noise reaches or exceeds 85 dB(A), workers run into issues by removing their hearing protection when they need to communicate with one another. Most employees have a critical requirement to communicate with colleagues without leaving hazardous noise environments, and traditional hearing protection headsets restrict the workers' ability to hear, making communication challenging or even impossible. Therefore, workers need a solution that provides the correct level of hearing protection, while allowing employees to communicate and have total situational awareness.

## SENS Technology

Speech Enhancement + Noise Suppression



## The Solution: SENS® Technology

SENS® takes noise cancellation to a whole new level. By isolating and enhancing speech while reducing harmful background noise, users can hear speech and stay protected while remaining aware of their surroundings in high-noise environments.

SENS® Technology brings low noise hearing experiences into high noise environments by enabling users to communicate effectively and remain aware of their surroundings while protecting their hearing. SENS® delivers three critical benefits in the one technology. It's simple - if you are looking for the best high noise communication devices, don't ask for noise-canceling ear protection, ask for SENS® electronic ear protection.

SENS® is in a full range of hearing protection and communication solutions.



Hearing loss can  
impact safety at home  
and on the job

**global facts about**

hearing  
loss

The background of the entire page is a dark, industrial scene featuring silhouettes of metal structures, walkways, and railings. A faint, glowing orange soundwave graphic is visible on the left side, extending horizontally across the middle section. The overall color palette is dark, with shades of purple, blue, and orange.

## **Over 600 Million Workers**

are exposed to noise levels high enough to cause irreversible hearing loss

## **Around 200 Million**

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

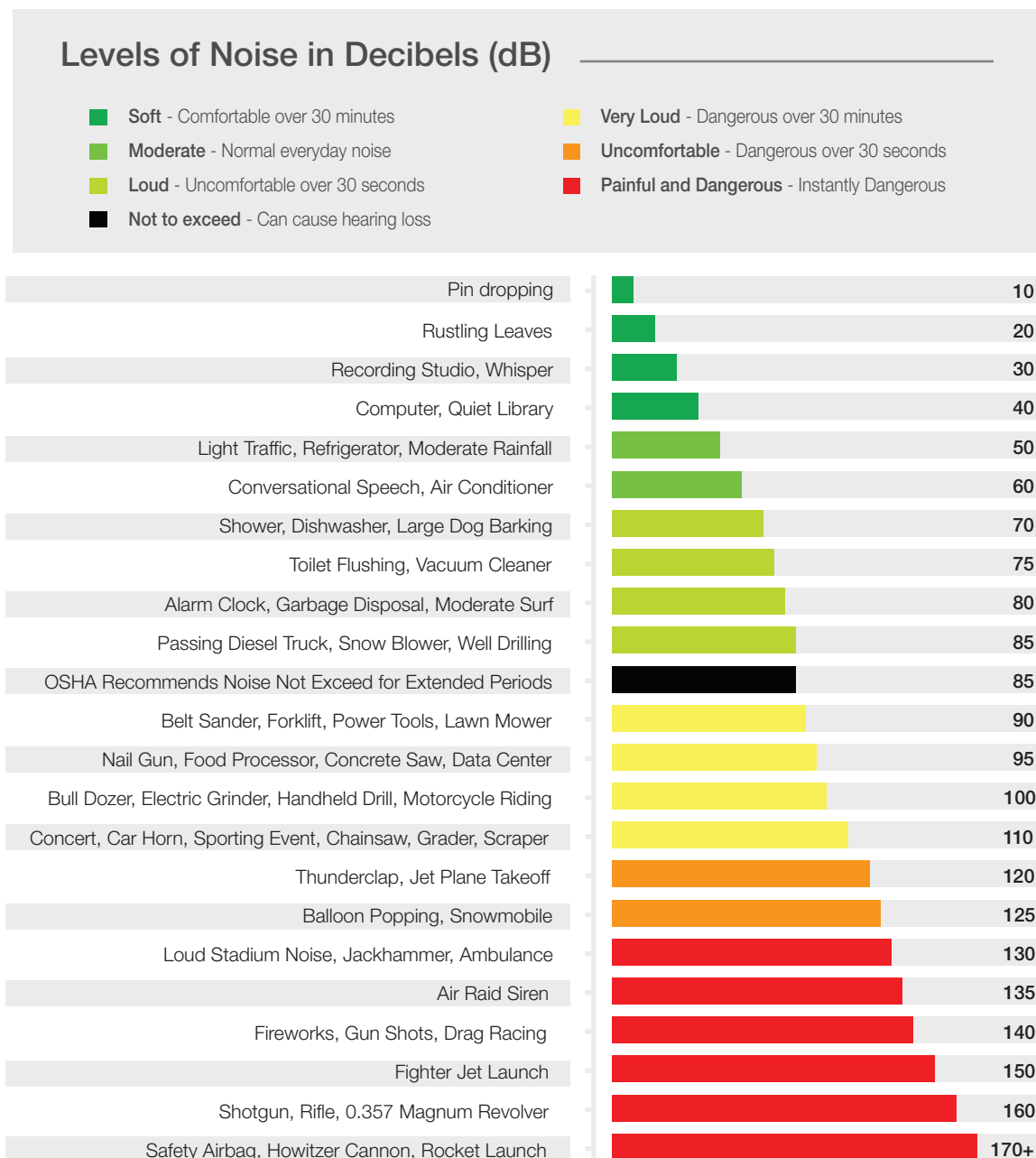
The indirect costs of occupational hearing loss are more than

**\$980 Billion USD Globally**

# do you work in a high-noise environment?



The graphic below will help you determine whether or not you work in a high-noise environment that would require hearing protection.



For more guides and infographics, visit:  
[sensear.com/markets-served/infographics](https://sensear.com/markets-served/infographics)

# Sensear in Action

## Hear Speech and Stay Protected with SENS® Technology

### SITUATIONAL AWARENESS

When working in a hazardous plant or work environment, you often hear that you need to be aware of your surroundings or to be risk-averse. SENS® enables 360° situational awareness, retains original sound characteristics, and reduces the risk of accidents. It accomplishes this by isolating and enhancing speech while reducing harmful background noise, so users can hear speech and stay protected while remaining aware of their surroundings in high-noise environments. SENS® determines the nature, distance, and directionality of all sounds including speech, machinery/vehicles, and alarms.

**Featured industries:** Solid Waste, Lumber, and Transportation

### COMMUNICATION

Most employees have a critical requirement to communicate with colleagues and traditional hearing protection headsets restrict the workers' ability to communicate. Sensear delivers a total high-noise communication solution by ensuring users can communicate face-to-face, at short and long distances via two-way radio, Bluetooth® cell phone, and other communication systems.

**Featured industries:** Data Centers, Manufacturing, and Road Construction

### EXTREME NOISE ENVIRONMENTS

In extremely loud environments, traditional methods of hearing protection just don't provide enough noise reduction. That's where double hearing protection comes in. While double hearing protection is achieved by wearing both earplugs and a hearing protection headset device at the same time, Sensear is the only manufacturer of double protection headsets with earplugs integrated into the earmuffs.

**Featured industries:** Steel Milling, Agriculture, and Construction

### HAZARDOUS LOCATIONS

Because of the nature of hazardous work environments, hearing protection may need to be certified as Intrinsically Safe (IS or Ex). Products marketing intrinsically safe must be certified by an accredited organization. Sensear's range of Hazardous Location Smart Headsets and Earplugs are certified by five major standards (UL, CSA, TIA, ATEX, and IECEx). As a global supplier to some of the largest industries and users in these environments, Sensear takes pride in providing the highest quality and testing standards in our devices. Documentation is available upon request.

**Featured industries:** Oil & Gas, Food Processing, and Mining

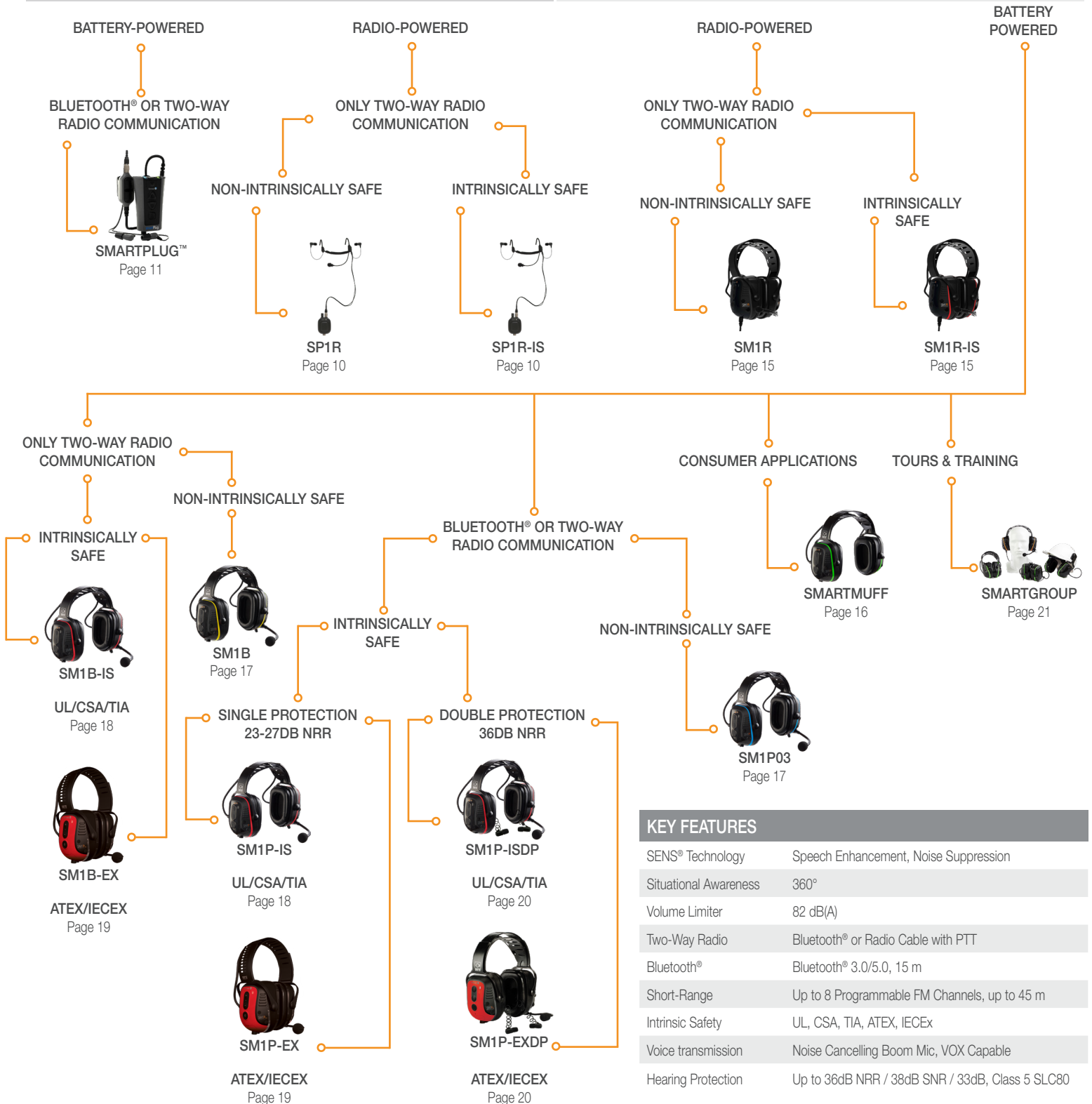




Sensear is solving high noise communication problems for many of the world's leading companies. Our range of Smart Headset and Smart Earplug products are comprehensive communication solutions for many applications in some of the world's noisiest and harshest environments.

## Earplugs

## Headsets



### What type of communication earplugs do you need?



### Feature Comparison Matrix:

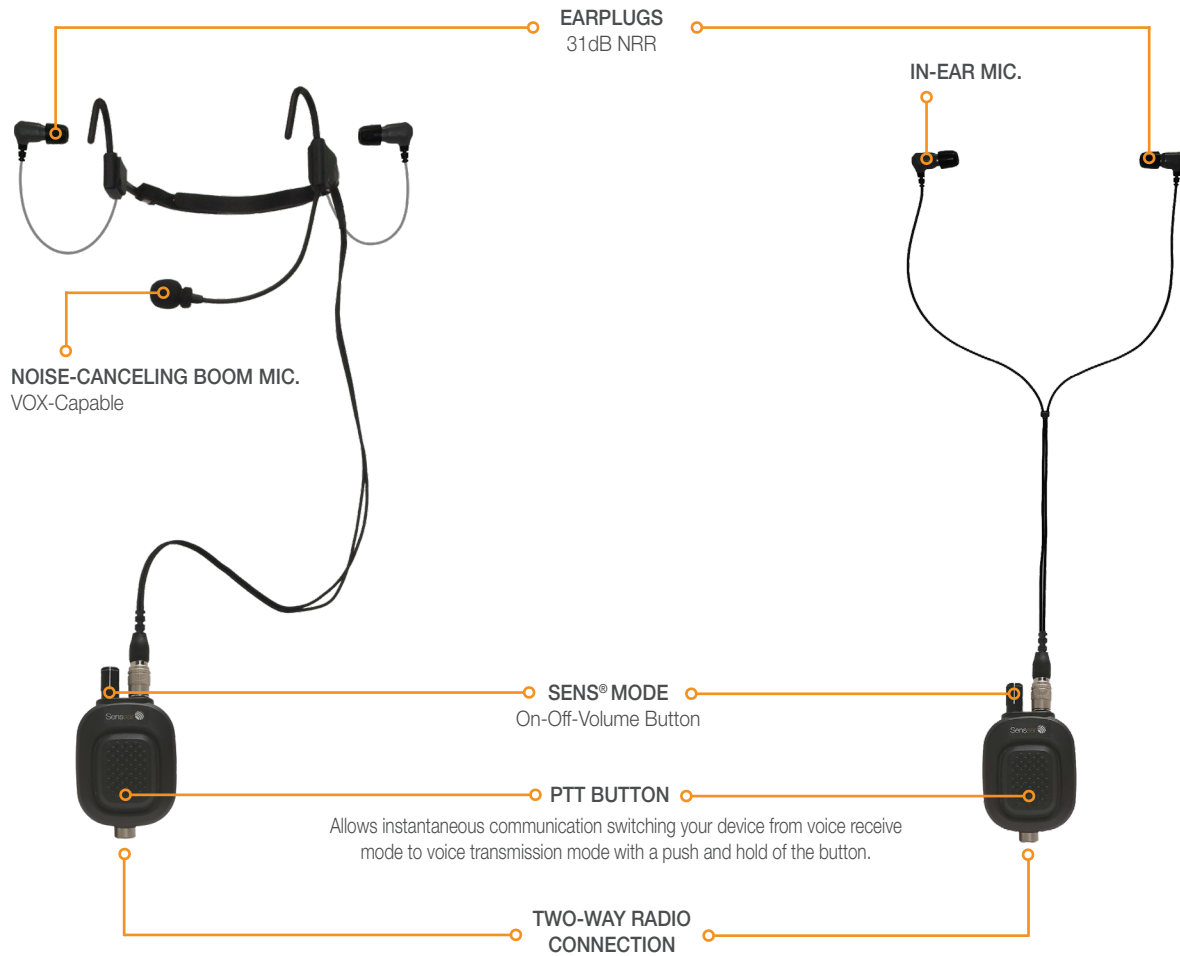
PART NUMBER	SMPLUG030001	SP1RE02	SP1REIS02	SP1RM02	SP1RMIS02
SENS® Technology	•	•	•	•	•
360° Awareness	•	•	•	•	•
Volume Limiter	•	•	•	•	•
In-Ear Mic	•	•	•		
Boom Mic Option				•	•
Two-Way Radio	•	•	•	•	•
Bluetooth®	•				
Short-Range	•				
Intrinsic Safety			•		•
VOX-Capable				•	•
Radio-Powered		•	•	•	•
Battery-Powered	•				

### Sensear Earplugs Part Number Index:

PRODUCT NAME	PART NUMBER	MIC STYLE	NRR	SNR	SLC80
SP1R	SP1RE02	In-Ear Mic	31dB	38dB	28dB, Class 5
	SP1RM02	Boom Mic	31dB	38dB	28dB, Class 5
SP1R-IS	SP1REIS02	In-Ear Mic	31dB	38dB	28dB, Class 5
	SP1RMIS02	Boom Mic	31dB	38dB	28dB, Class 5
smartPlug™	SMPLUG030001	In-Ear Mic	31dB	38dB	28dB, Class 5

## SP1R: An In-Ear Solution Powered by Radio

The SP1R is a revolution in lightweight hearing protection. Built specifically to enhance two-way radio communications in high-noise environments, it is powered by your two-way radio, thus eliminating the need for charging. The SP1R delivers Sensear's exceptional SENS® Technology into the most compact hearing solution in the industry. In addition to the lightweight, rugged boom microphone headset, the SP1R offers an in-ear microphone specifically for users of respirators or other equipment that restricts boom-mic usage. Additionally, the SP1R has an intrinsically safe option, the SP1R-IS, with TIA, CSA, & UL certifications.



PART NUMBER	DESCRIPTION	NRR	SNR	SLC80
SP1RE02	Two-Way Radio Earplugs with In-Ear Mic	31dB	38dB	28dB, Class 5
SP1RM02	Two-Way Radio Earplugs with Boom Mic	31dB	38dB	28dB, Class 5
SP1REIS02	Hazardous Location Two-Way Radio Earplugs with In-Ear Mic	31dB	38dB	28dB, Class 5
SP1RMIS02	Hazardous Location Two-Way Radio Earplugs with Boom Mic	31dB	38dB	28dB, Class 5

KEY FEATURES	
Speech Enhancement	Face-to-Face Communication
Situational Awareness	360°
Volume Limiter	82 dB(A)
Two-Way Radio	Radio Cable with PTT
Intrinsic Safety	UL, CSA, TIA
Voice transmission	Noise-cancelling Boom Mic, VOX-capable
IP Rating	IP54

See more details at [sensear.com/sp1r](https://sensear.com/sp1r) or [sensear.com/products/earplugs/sp1r-is](https://sensear.com/products/earplugs/sp1r-is)

## smartPlug™: Noise Suppressing Earplugs for Industrial Environments

The smartPlug™ is a digital hearing protection in-ear-headset solution for use in some of the world's largest industries, where high-noise and extreme environments are part of the everyday challenges to communications and hearing protection. The smartPlug™ also comes equipped with Sensear's industry-leading SENS® Technology that enhances speech and suppresses noise so users can communicate safely and effectively while maintaining 360° situational awareness. The smartPlug™ features an in-ear microphone allowing users to clearly pick up speech and transmit through existing communication systems by two-way radio, Bluetooth®, or short-range connections.


### PTT BUTTON

Allows instantaneous communication switching your device from voice receive mode to voice transmission mode with a push and hold of the button.



PART NUMBER	DESCRIPTION	NRR	SNR	SLC80
SMPLUG030001	Bluetooth®, Two-Way Radio, and Short-Range Earplugs with In-Ear Mic	31dB	38dB	28dB, Class 5

KEY FEATURES	
Speech Enhancement	Face-to-Face Communication
Situational Awareness	360°
Volume Limiter	82 dB(A)
Two-Way Radio	Bluetooth® or Radio Cable with PTT
Bluetooth®	Bluetooth® 3.0, 15 m
Short-Range	Up to 8 Programmable FM Channels, up to 45 m
IP Rating	IP54

 See more details at [sensear.com/products/earplugs/smartplug](https://sensear.com/products/earplugs/smartplug)

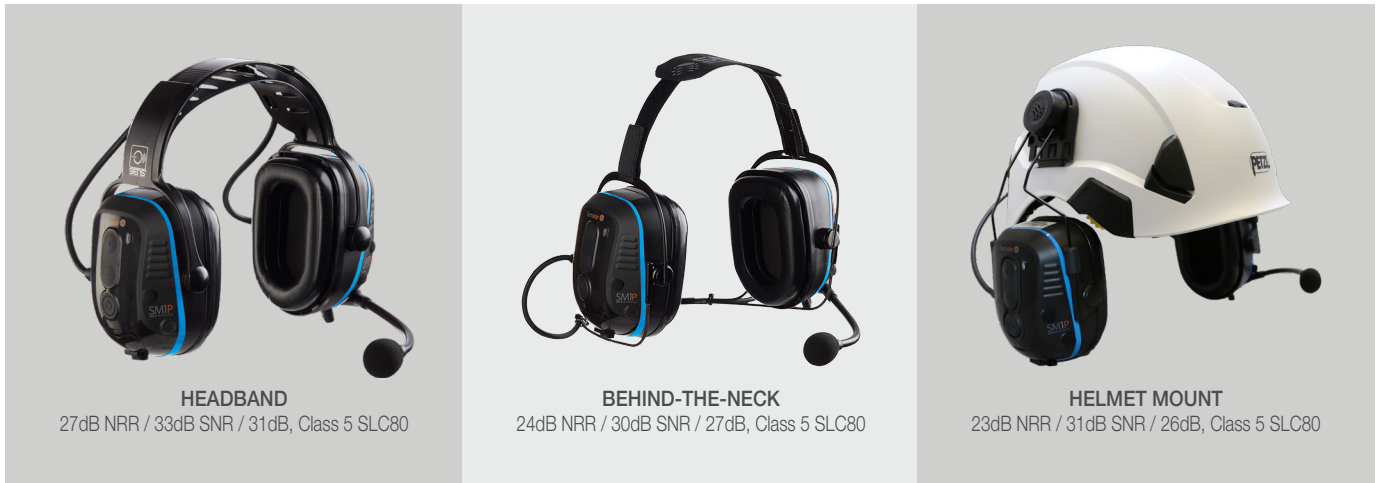
What type of communication headset do you need?



Feature Comparison Matrix:

FEATURES	SMARTMUFF	SM1R	SM1R-IS	SM1B	SM1B-IS / SM1B-EX	SM1P03	SM1P-IS / SM1P-EX	SM1P-ISDP / SM1P-EXDP
SENS® Technology	•	•	•	•	•	•	•	•
360° Awareness	•	•	•	•	•	•	•	•
Volume Limiter	•	•	•	•	•	•	•	•
Two-Way Radio		•	•	•	•	•	•	•
Bluetooth®						•	•	•
Short-Range						•	•	•
Intrinsic Safety			•		•		•	•
VOX-Capable		•	•	•	•	•	•	•
Dual Protection								•
Radio-Powered		•	•					
Battery-Powered	•			•	•	•	•	•

## What headset style do you need?



**HEADBAND**  
27dB NRR / 33dB SNR / 31dB, Class 5 SLC80

**BEHIND-THE-NECK**  
24dB NRR / 30dB SNR / 27dB, Class 5 SLC80

**HELMET MOUNT**  
23dB NRR / 31dB SNR / 26dB, Class 5 SLC80

## Sensear Headset Part Number Index:

PRODUCT NAME	PART NUMBER	HEADSET STYLE	COLOR	NRR	SNR	SLC80
SM1R	SM1RB001	Headband	Black/Grey	27dB	33dB	31dB, Class 5
	SM1RE001	Behind-the-Neck	Black/Grey	24dB	30dB	27dB, Class 5
	SM1RH001	Helmet Mount	Black/Grey	23dB	31dB	26dB, Class 5
SM1R-IS	SM1RISB1	Headband	Black/Red	27dB	33dB	31dB, Class 5
	SM1RISE1	Behind-the-Neck	Black/Red	24dB	30dB	27dB, Class 5
	SM1RISH1	Helmet Mount	Black/Red	23dB	31dB	26dB, Class 5
SM1B	SM1BB002	Headband	Black/Yellow	27dB	33dB	31dB, Class 5
	SM1BE002	Behind-the-Neck	Black/Yellow	24dB	30dB	27dB, Class 5
	SM1BH002	Helmet Mount	Black/Yellow	23dB	31dB	26dB, Class 5
SM1B-IS	SM1BBIS02	Headband	Black/Red	27dB	33dB	31dB, Class 5
	SM1BEIS02	Behind-the-Neck	Black/Red	24dB	30dB	27dB, Class 5
	SM1BHIS02	Helmet Mount	Black/Red	23dB	31dB	26dB, Class 5
SM1B-Ex	SM1BBEX02	Headband	Red	27dB	33dB	31dB, Class 5
	SM1BEE02	Behind-the-Neck	Red	24dB	30dB	27dB, Class 5
	SM1BHEX02	Helmet Mount	Red	23dB	31dB	26dB, Class 5
SM1P03	SM1PB003	Headband	Black/Blue	27dB	33dB	31dB, Class 5
	SM1PE003	Behind-the-Neck	Black/Blue	24dB	30dB	27dB, Class 5
	SM1PH003	Helmet Mount	Black/Blue	23dB	31dB	26dB, Class 5
SM1P-IS	SM1PBIS02	Headband	Black/Red	27dB	33dB	31dB, Class 5
	SM1PEIS02	Behind-the-Neck	Black/Red	24dB	30dB	27dB, Class 5
	SM1PHIS02	Helmet Mount	Black/Red	23dB	31dB	26dB, Class 5



PRODUCT NAME	PART NUMBER	HEADSET STYLE	COLOR	NRR	SNR	SLC80
SM1P-ISDP	SM1PBISDP02	Headband	Black/Red	36dB	37dB	32dB, Class 5
	SM1PEISDP02	Behind-the-Neck	Black/Red	36dB	38dB	33dB, Class 5
	SM1PHISDP02	Helmet Mount	Black/Red	36dB	38dB	30dB, Class 5
SM1P-Ex	SM1PBEX02	Headband	Red/Grey	27dB	33dB	31dB, Class 5
	SM1PEEX02	Behind-the-Neck	Red/Grey	24dB	30dB	27dB, Class 5
	SM1PHEX02	Helmet Mount	Red/Grey	23dB	31dB	26dB, Class 5
SM1P-ExDP	SM1PBEXDP02	Headband	Red/Grey	36dB	37dB	32dB, Class 5
	SM1PEEXDP02	Behind-the-Neck	Red/Grey	36dB	38dB	33dB, Class 5
	SM1PHEXDP02	Helmet Mount	Red/Grey	36dB	38dB	30dB, Class 5
SmartGroup - Transmit-Only	SM1PBT02	Headband	Black/Orange	27dB	33dB	31dB, Class 5
	SM1PET02	Behind-the-Neck	Black/Orange	24dB	30dB	27dB, Class 5
	SM1PHT02	Helmet Mount	Black/Orange	23dB	31dB	26dB, Class 5
SmartGroup - Receive-Only / smartMuff	SM1PBS02	Headband	Black/Green	27dB	33dB	31dB, Class 5
	SM1PES02	Behind-the-Neck	Black/Green	24dB	30dB	27dB, Class 5
	SM1PHS02	Helmet Mount	Black/Green	23dB	31dB	26dB, Class 5
SmartGroup - Both Transmit & Receive	SM1PBSG02	Headband	Black/Orange	27dB	33dB	31dB, Class 5
	SM1PESG02	Behind-the-Neck	Black/Orange	24dB	30dB	27dB, Class 5
	SM1PHSG02	Helmet Mount	Black/Orange	23dB	31dB	26dB, Class 5

## SM1R: The Perfect Complement to Radios in High-Noise Environments

The SM1R is built specifically to enhance two-way radio communication in high-noise environments. The headset is unique from the rest of Sensear’s headset portfolio in that it contains no battery and instead is powered by the radio, making the unit lighter and more comfortable for the user. Similar to the rest of Sensear’s portfolio, it pairs Sensear’s patented SENS® Technology and a noise-canceling boom mic to allow users in high-noise environments to communicate either via face-to-face or two-way radios while maintaining 360° audible awareness of their surroundings and protecting their hearing.



### SM1R-IS: A Radio-Powered Two-Way Radio Headset for Hazardous Locations

TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Edition with a hazardous location rating of Class I, II, III, Division 1 & 2, Groups A - G, T5 -25°C to +60°C, T3C -25°C to +60°C

See more details at [sensear.com/products/headsets/sm1r-is](https://sensear.com/products/headsets/sm1r-is)



See more details at [sensear.com/products/headsets/sm1r](https://sensear.com/products/headsets/sm1r)

PART NUMBER	DESCRIPTION	NRR	SNR	SLC80
SM1RB001	Two-Way Radio Headband Headset	27dB	33dB	31dB, Class 5
SM1RE001	Two-Way Radio Behind-the-Neck Headset	24dB	30dB	27dB, Class 5
SM1RH001	Two-Way Radio Helmet Mount Headset	23dB	31dB	26dB, Class 5
SM1RISB1	Hazardous Location Two-Way Radio Headband Headset	27dB	33dB	31dB, Class 5
SM1RISE1	Hazardous Location Two-Way Radio Behind-the-Neck Headset	24dB	30dB	27dB, Class 5
SM1RISH1	Hazardous Location Two-Way Radio Helmet Mount Headset	23dB	31dB	26dB, Class 5


KEY FEATURES	
Speech Enhancement	Face-to-Face Communication
Situational Awareness	360°
Volume Limiter	82 dB(A)
Two-Way Radio	Radio Cable with PTT
Intrinsic Safety	UL, CSA, TIA
Voice transmission	Noise-canceling Boom Mic, VOX-capable
IP Rating	IP54

## smartMuff: Hearing Protection, Communication, and Safety Headset

The smartMuff serves three purposes: hearing protection up to 27dB NRR, enhanced speech communication, and 360° situational alertness. With the smartMuff, users will protect their ears and hear their peers. This headset has several applications, including recreation (ATVs, helicopter rides, gun ranges, etc.), lawn service/maintenance (listen to FM/AM radio), and workshops (metal/woodworking).



PART NUMBER	DESCRIPTION	NRR	SNR	SLC80	KEY FEATURES	
SM1PBS02	Face-to-Face Communication Headband Headset	27dB	33dB	31dB, Class 5	Speech Enhancement	Face-to-Face Communication
SM1PES02	Face-to-Face Communication Behind-the-Neck Headset	24dB	30dB	27dB, Class 5	Situational Awareness	360°
SM1PHS02	Face-to-Face Communication Helmet Mount Headset	23dB	31dB	26dB, Class 5	Volume Limiter	82 dB(A)
					Short-Range	Up to 8 Programmable FM Channels, up to 45 m
					Voice transmission	Face-to-Face via SENS® Mics
					IP Rating	IP54

 See more details at [sensear.com/products/headsets/smart-earmuff](https://sensear.com/products/headsets/smart-earmuff)

## SM1P03: A Smart Pro Wireless Bluetooth® Communication Headset

The SM1P03 is a next-generation smart industrial headset from Sensear, offering up to 27dB NRR for powerful hearing protection and clear communication in high-noise environments. It features both wired and wireless connectivity, including FM short-range and an upgraded Bluetooth® 5.0 chip for faster connections, improved power efficiency, and greater flexibility to support future platform enhancements. With Sensear's proprietary SENS® Technology and a noise-canceling boom mic, the SM1P03 enhances speech clarity while reducing background noise—driving safety, productivity, and long-term value through sustainable, future-ready design.



### SM1B: A Battery-Powered Two-Way Radio Headset

The SM1B two-way radio headset offers advanced connectivity and superior performance, building on the SM1R model to support a wider range of radios globally. This makes the SM1B a top choice for industries that require reliable and effective communication solutions for their workforce.

See more details at [sensear.com/products/headsets/sm1b](https://sensear.com/products/headsets/sm1b)



See more details at [sensear.com/products/headsets/sm1p03](https://sensear.com/products/headsets/sm1p03)

PART NUMBER	DESCRIPTION	NRR	SNR	SLC80
SM1PB003	Bluetooth®, Two-Way Radio, and Short-Range Headband Headset	27dB	33dB	31dB, Class 5
SM1PE003	Bluetooth®, Two-Way Radio, and Short-Range Behind-the-Neck Headset	24dB	30dB	27dB, Class 5
SM1PH003	Bluetooth®, Two-Way Radio, and Short-Range Helmet Mount Headset	23dB	31dB	26dB, Class 5
SM1BB002	Battery-Powered Two-Way Radio Headband Headset	27dB	33dB	31dB, Class 5
SM1BE002	Battery-Powered Two-Way Radio Behind-the-Neck Headset	24dB	30dB	27dB, Class 5
SM1BH002	Battery-Powered Two-Way Radio Helmet Mount Headset	23dB	31dB	26dB, Class 5

KEY FEATURES	
Speech Enhancement	Face-to-Face Communication
Situational Awareness	360°
Volume Limiter	82 dB(A)
Two-Way Radio	Bluetooth® or Radio Cable with PTT
Bluetooth®	Bluetooth® 5.0, 15 m
Short-Range	Up to 8 Programmable FM Channels, up to 45 m
Voice transmission	Noise-canceling Boom Mic, VOX-capable
IP Rating	IP54

## SM1P-IS: A Versatile Solution for Safe Communication in Hazardous Locations

The SM1P-IS enables high noise two-way radio, Bluetooth®, short-range, and face-to-face communication in explosive environments. Users of the SM1P-IS benefit from clear communication using its wired or wireless capabilities as well as face-to-face communication while still protecting their hearing and remaining aware of the surrounding work environment. It's the perfect solution for your hazardous environments such as explosive chemicals and fuels as well as combustible powders. The SM1P-IS is the next-generation hazardous location headset. Customer focus in hazardous environments is at the forefront of this robust headset design to enhance safety and communications for improved efficiency in high-noise and hazardous workplace environments.



### SM1B-IS: A Battery-Powered Two-Way Radio Headset for Hazardous Locations

The SM1B-IS sets a new benchmark for two-way radio communication in hazardous industrial environments, offering robust two-way radio performance with intrinsically safe certification for explosive atmospheres.

See more details at [sensear.com/products/headsets/sm1b-is](https://sensear.com/products/headsets/sm1b-is)



See more details at [sensear.com/products/headsets/sm1p-is](https://sensear.com/products/headsets/sm1p-is)

PART NUMBER	DESCRIPTION	NRR	SNR	SLC80
SM1PBIS02	Hazardous Location Bluetooth®, Two-Way Radio, and Short-Range Headband Headset	27dB	33dB	31dB, Class 5
SM1PEIS02	Hazardous Location Bluetooth®, Two-Way Radio, and Short-Range Behind-the-Neck Headset	24dB	30dB	27dB, Class 5
SM1PHIS02	Hazardous Location Bluetooth®, Two-Way Radio, and Short-Range Helmet Mount Headset	23dB	31dB	26dB, Class 5
SM1BBIS02	Hazardous Location Battery-Powered Two-Way Radio Headband Headset	27dB	33dB	31dB, Class 5
SM1BEIS02	Hazardous Location Battery-Powered Two-Way Radio Behind-the-Neck Headset	24dB	30dB	27dB, Class 5
SM1BHIS02	Hazardous Location Battery-Powered Two-Way Radio Helmet Mount Headset	23dB	31dB	26dB, Class 5

KEY FEATURES	
Speech Enhancement	Face-to-Face Communication
Situational Awareness	360°
Volume Limiter	82 dB(A)
Two-Way Radio	Bluetooth® or Radio Cable with PTT
Bluetooth®	Bluetooth® 3.0, 15 m
Short-Range	Up to 8 Programmable FM Channels, up to 45 m
Intrinsic Safety	UL, CSA, TIA
Voice transmission	Noise-canceling Boom Mic, VOX-capable
IP Rating	IP54

## SM1P-Ex: Hazardous Location ATEX Headset

The SM1P-Ex enables high noise two-way radio, Bluetooth®, headset-to-headset communication, and face-to-face communication in explosive environments that require ATEX and IECEx certification. Users of the SM1P-Ex benefit from clear communication using its wired or wireless capabilities as well as face-to-face communication while still protecting their hearing and remaining aware of the surrounding work environment. It's the perfect solution for your hazardous environments such as explosive chemicals and fuels as well as combustible powders.



## SM1B-Ex: Battery-Powered Hazardous Location (ATEX) Two-Way Radio Headset

The SM1B-Ex headset delivers advanced connectivity and safety in ATEX/IECEx-certified explosive environments. With SENSE® Technology and a durable battery, it's ideal for industries handling hazardous chemicals, fuels, and powders.

See more details at [sensear.com/products/headsets/sm1b-ex](https://sensear.com/products/headsets/sm1b-ex)



See more details at [sensear.com/products/headsets/sm1p-ex](https://sensear.com/products/headsets/sm1p-ex)

PART NUMBER	DESCRIPTION	NRR	SNR	SLC80
SM1PBEX02	Hazardous Location (ATEX) Bluetooth®, Two-Way Radio, and Short-Range Headband Headset	27dB	33dB	31 dB, Class 5
SM1PEEX02	Hazardous Location (ATEX) Bluetooth®, Two-Way Radio, and Short-Range Behind-the-Neck Headset	24dB	30dB	27 dB, Class 5
SM1PHEX02	Hazardous Location (ATEX) Bluetooth®, Two-Way Radio, and Short-Range Helmet Mount Headset	23dB	31dB	26dB, Class 5
SM1BBEX02	Hazardous Location (ATEX) Battery-Powered Two-Way Radio Headband Headset	27dB	33dB	31 dB, Class 5
SM1BEEEX02	Hazardous Location (ATEX) Battery-Powered Two-Way Radio Behind-the-Neck Headset	24dB	30dB	27 dB, Class 5
SM1BHEX02	Hazardous Location (ATEX) Battery-Powered Two-Way Radio Helmet Mount Headset	23dB	31dB	26dB, Class 5

KEY FEATURES	
Speech Enhancement	Face-to-Face Communication
Situational Awareness	360°
Volume Limiter	82 dB(A)
Two-Way Radio	Bluetooth® or Radio Cable with PTT
Bluetooth®	Bluetooth® 3.0, 15 m
Short-Range	Up to 8 Programmable FM Channels, up to 45 m
Intrinsic Safety	ATEX, IECEx, UL, CSA
Voice transmission	Noise-canceling Boom Mic, VOX-capable
IP Rating	IP54

## SM1P-ISDP: Hazardous Location Dual Protection Headset for Communication in Extreme Noise Environments

Dual protection is often a requirement in many critical working areas where exposures may exceed 100 dB(A), Sensear has integrated our SENS® communication capabilities into an Intrinsically Safe Dual Protection headset (ISDP) so users can effectively communicate without removing their hearing protection in these extremely high-noise hazardous conditions. Based on the existing SM1P-IS headset, and incorporating our unique dual protection feature, the SM1P-ISDP fulfills the marketplace need for a high-performance hazardous location headset for extreme noise environments.



## SM1P-ExDP: Hazardous Location Dual Protection (ATEX) Headset for Communication in Extreme Noise Environments

Based on the existing SM1P-Ex headset and incorporating our unique dual protection feature, the SM1P-ExDP headset fills the marketplace need for a high-performing hazardous location headset for extreme noise environments that require ATEX and IECEx certifications.



See more details at [sensear.com/products/headsets/sm1p-exdp](https://sensear.com/products/headsets/sm1p-exdp)

See more details at [sensear.com/products/headsets/sm1p-isdp](https://sensear.com/products/headsets/sm1p-isdp)

PART NUMBER	DESCRIPTION	NRR	SNR	SLC80	KEY FEATURES
SM1PBIISDP02	Extreme Noise Bluetooth®, Two-Way Radio, and Short-Range Headband Headset	36dB	38dB	32dB, Class 5	Speech Enhancement Face-to-Face Communication
SM1PEISDP02	Extreme Noise Bluetooth®, Two-Way Radio, and Short-Range Behind-the-Neck Headset	36dB	38dB	33dB, Class 5	Situational Awareness 360°
SM1PHISDP02	Extreme Noise Bluetooth®, Two-Way Radio, and Short-Range Helmet Mount Headset	36dB	38dB	30dB, Class 5	Volume Limiter 82 dB(A)
SM1PBEXDP02	Extreme Noise (ATEX) Bluetooth®, Two-Way Radio, and Short-Range Headband Headset	36dB	38dB	32dB, Class 5	Two-Way Radio Bluetooth® or Radio Cable with PTT
SM1PEEXDP02	Extreme Noise (ATEX) Bluetooth®, Two-Way Radio, and Short-Range Behind-the-Neck Headset	36dB	38dB	33dB, Class 5	Bluetooth® Bluetooth® 3.0, 15 m
SM1PHEXDP02	Extreme Noise (ATEX) Bluetooth®, Two-Way Radio, and Short-Range Helmet Mount Headset	36dB	38dB	30dB, Class 5	Short-Range Up to 8 Programmable FM Channels, up to 45 m
					Intrinsic Safety UL, CSA, TIA, ATEX, IECEx
					Voice transmission Noise-canceling Boom Mic, VOX-capable
					IP Rating IP54

## SmartGroup: Industrial Tours and Training Headsets

Sensear's SmartGroup products are an industry-leading solution for companies who conduct facility, factory, and plant tours or training sessions in noisy environments. Sensear's patented SENS® Technology enhances speech and suppresses background noise so users can communicate face-to-face safely and effectively in noisy environments. SmartGroup is a completely customizable build-your-own solution to meet your needs. Select the number of Leader headsets and the number of Student headsets for your needs. It's also highly recommended to purchase a programming tablet for further customization capabilities.



PART NUMBER	DESCRIPTION	NRR	SNR	SLC80
SM1PBS02	SmartGroup Receive-Only Headband Headset	27dB	33dB	31dB, Class 5
SM1PES02	SmartGroup Receive-Only Behind-the-Neck Headset	24dB	30dB	27dB, Class 5
SM1PHS02	SmartGroup Receive-Only Helmet Mount Headset	23dB	31dB	26dB, Class 5
SM1PBT02	SmartGroup Transmit-Only Headband Headset	27dB	33dB	31dB, Class 5
SM1PET02	SmartGroup Transmit-Only Behind-the-Neck Headset	24dB	30dB	27dB, Class 5
SM1PHT02	SmartGroup Transmit-Only Helmet Mount Headset	23dB	31dB	26dB, Class 5
SM1PBSG02+ SRCK617002	SmartGroup (Transmit & Receive) Headband Headset with External PTT	27dB	33dB	31dB, Class 5
SM1PESG02+ SRCK617002	SmartGroup (Transmit & Receive) Behind-the-Neck Headset with External PTT	24dB	30dB	27dB, Class 5
SM1PHSG02+ SRCK617002	SmartGroup (Transmit & Receive) Helmet Mount Headset with External PTT	23dB	31dB	26dB, Class 5
SM1PBSG02	SmartGroup (Transmit & Receive) Headband Headset	27dB	33dB	31dB, Class 5
SM1PESG02	SmartGroup (Transmit & Receive) Behind-the-Neck Headset	24dB	30dB	27dB, Class 5
SM1PHSG02	SmartGroup (Transmit & Receive) Helmet Mount Headset	23dB	31dB	26dB, Class 5

KEY FEATURES	
Speech Enhancement	Face-to-Face Communication
Situational Awareness	360°
Volume Limiter	82 dB(A)
Short-Range	Up to 8 Programmable FM Channels, up to 45 m
Voice transmission	Noise-canceling Boom Mic, VOX-capable
IP Rating	IP54

See more details at [sensear.com/products/headsets/smart-group](https://sensear.com/products/headsets/smart-group)



## Cables to connect your Sensear product to your two-way radio or other communication devices.

Sensear’s headsets and earplugs can be connected to Motorola, Kenwood, Icom, Hytera, Harris, Tait, Sepura, Vertex, EF Johnson, JEM, and most other radio brands. Cables are sold separately from headsets and earplugs.

Because everyone has different needs based on their two-way radio brand and model, we have developed radio cable compatibility charts which are on our website (see link below). If you are unable to find the cable for your two-way radio or other communication device, don’t worry, **additional cables are available upon request.**

### Cables



 For a full two-way radio compatibility tool and details visit: [sensear.com/two-way-radio-cable-compatibility-tool](https://sensear.com/two-way-radio-cable-compatibility-tool)

## Earplugs Accessories



FOAM EARTIPS



SP1R REPLACEMENT  
EARBUDS



SMARTPLUG™  
REPLACEMENT BELT CLIP

## Headset Accessories



PROGRAMMING TABLET



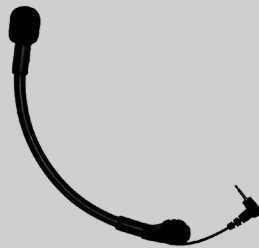
HEADSET CHARGING RACK



HEADBAND, BEHIND-THE-NECK, &  
HELMET MOUNT REPLACEMENTS




EARMUFF HYGIENE KITS



NOISE-CANCELING  
BOOM MICROPHONE



HEADSET HARD CASE

 For a full list of accessories, visit:  
[sensear.com/products/accessories-replacement-parts](https://sensear.com/products/accessories-replacement-parts)



# Check out our free headset selector tool

to find the most  
appropriate headset  
for your situation



To learn more, visit  
[lp.sensear.com/selector-tool](http://lp.sensear.com/selector-tool)

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