


## 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.

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



KEY FEATURES	
SENS® Technology	Enhances speech while suppressing background noise to a safe level
360° Situational Awareness	Remain aware of surrounding noises and hazards
Hearing Protection	Up to 27dB NRR / 33dB SNR / 31dB, Class 5 SLC80
Volume Limiter	Limit 'in-ear' exposure to 82 dB(A)
Communication	Two-Way Radio with PTT Cable
Voice Transmission	Noise-canceling Boom Mic, VOX-capable
Power	No battery in headset, unit is powered by the radio
Headsets Styles	Headband, Behind-the-Neck, Helmet Mount
IP Ratings	IP54 (headset), IP68 (boom mic)

 <b>360° SITUATIONAL AWARENESS</b>	 <b>ELECTRONIC VOLUME LIMITER</b>	 <b>PROTECTS HEARING</b>
 <b>ENHANCE SPEECH SUPPRESS NOISE</b>	 <b>FACE-TO-FACE COMMUNICATION</b>	 <b>TWO-WAY RADIOS</b>





# Sensear in Action



## Headset Styles



**SM1RB001 | HEADBAND**  
27dB NRR / 33dB SNR / 31dB, Class 5 SLC80



**SM1RE001 | BEHIND-THE-NECK**  
24dB NRR / 30dB SNR / 27dB, Class 5 SLC80



**SM1RH001 | HELMET MOUNT**  
23dB NRR / 31dB SNR / 26dB, Class 5 SLC80

## Technical Specifications

GENERAL	MOUNTING TYPE	PART NUMBER	WEIGHT	IP RATING	OPERATING TEMPERATURE
	Headband (HB)	SM1RB001	430 g (15.17 oz.)	IP54	-20°C to +60°C (-4°F to 140°F)
	Behind-the-Neck (BTN)	SM1RE001	400 g (14.11 oz.)	IP54	-20°C to +60°C (-4°F to 140°F)
	Helmet Mount (HM)	SM1RH001	430 g (15.17 oz.)	IP54	-20°C to +60°C (-4°F to 140°F)

HEARING PROTECTION	REGION	STANDARD	RESULT	HB	BTN	HM
<b>Volume Limiter</b> - 82 dB(A) [programmable] Only applicable when headset is powered on	Australia / NZ	AS/NZS 1270	SLC80	31dB, Class 5	27dB, Class 5	26dB, Class 5
	USA / Canada	ANSI S3.19	NRR	27dB	24dB	23dB
	Europe	EN352-1/EN352-3	SNR	33dB	30dB	31dB

POWER SOURCE	BATTERY TYPE
	Powered by two-way radio

COMMUNICATION	FACE-TO-FACE SENS® MODE	VOICE TRANSMISSION	TWO-WAY RADIO
	SENS® voice pickup limit of 95 dB(A)	Noise-canceling boom microphone. VOX capable when connected to VOX enabled two-way radio. (Must be verified and tested for compatibility with the two-way radio.)	6-pin Hirose connector. Audio revert to radio when headset Hirose disconnected. (Dependent on radio type and compatible SRCK radio cable.)

Sensear Inc.  
1141 East Main Street  
Suite 201  
East Dundee, IL 60118  
United States

Sensear Pty Ltd  
4 Hehir Street  
Belmont, WA 6104  
Australia

