

Sensear Smart Muff Range

A Total High Noise Communication Solution



SM
ADVANCED SENS™ TECHNOLOGY
Face-to-face



SM1
ADVANCED SENS™ TECHNOLOGY
Face-to-face,
Two-way

Speaker output
Limited to
82dB(A) in
the ear*

*when tested according to EN
352-4 below H1, M and L
criterion levels



Helmet Mount



SM1x
ADVANCED SENS™ TECHNOLOGY
Face-to-face,
Two-way,
Bluetooth



SM1xSR
ADVANCED SENS™ TECHNOLOGY
Face-to-face,
Two-way,
Bluetooth,
Short Range



Around the Neck

Sensear

Hear Speech Stay Protected

Hear Speech, Stay Protected with the Smart Muff Range



Speech
Enhancement



Noise
Suppression



SENS
TECHNOLOGY

Sensear Smart Muff Range is the only communication and hearing protection system that includes the groundbreaking SENS™ technology which simultaneously isolates and enhances speech while suppressing harmful background noise.

With a host of communication options, the Smart Muff Range provides a total high noise communication solution for high noise environments from face-to-face, to short distance and long distance via two-way radio and Bluetooth cell phone.

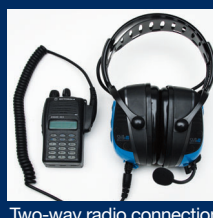
The need to communicate effectively in high noise environments makes the Smart Muff range an obvious choice. The SM, SM1 and SM1x and SM1xSR communication devices have all the features expected from premium hearing protectors with the addition of groundbreaking new technology that now delivers speech quality and functionality that sets a new benchmark for communication-enabled hearing protection.

SENS™ technology uniquely adapts to every high noise environment including impact, tonal and constant noise to deliver an effective communication option for users. Further, because Sensear lowers background noise to a safe level, users maintain situational awareness which is critical for safety.

Featuring rugged design for heavy duty and general use, the Smart Muff Range are simple to use, comfortable communication devices that allow clear communication beyond 85dB(A) via face to face, two-way or mobile phone without the need to remove hearing protection.

Combining Bluetooth technology with advanced SENS™ technology, the SM1x and SM1xSR ear-muff offers the highest level of voice communication available on the market, with optimized hearing and speech clarity when used with mobile phones. Offering all the features of the SM1x with the exception of Bluetooth® mobile phone connectivity, the SM1 is a premium product at a competitive price for those who do not require Bluetooth® functionality. If you simply require the ability to hear speech face to face then the SM is the right product to separate speech from background noise.

The Smart Muff Range allows users to hear speech and stay protected in high noise environments.



Two-way radio connection



Sensear Smart Muff Range

Smart Product Features



Smart Communication Features



Face to Face



Short Range
(SM1xSR)



Two Way Radio



Cell/Mobile Phone
(SM1x and
SM1xSR)



Bluetooth Devices
(SM1x and
SM1xSR)



MP3 Player



Speech
Enhancement



Noise Suppression



SENS™ Technology

Attenuation Data

SM1 Hearing protector CLASS 5 tested to AS/NZS 1270:2002.
When Selected, used and maintained as specified in AS/NZS 1269, this protector may be used in noise up to 110dB(A) assuming an 85dB(A) criterion. A lower criterion may require a higher protector class.

Attenuation Data		SM, SM1, SM1x, SM1xSR Headband Model							
F(Hz)		125	250	500	1000	2000	4000	8000	SLC ₉₅
Mean Attenuation (dB)	18.3	21.2	26.1	28.3	32.0	37.3	40.0		28dB
Standard Deviation (dB)	3.7	3.4	2.9	2.1	4.1	3.1	4.0		
Mean minus Standard Deviation (dB)	14.6	17.8	23.2	26.2	27.9	34.2	36.0		

Tested according to ANSI S3.19-1974

Attenuation Data		SM, SM1, SM1x, SM1xSR Headband Model									
F(Hz)		125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Attenuation (dB)	21.1	25.5	29.9	32.9	34.7	41.2	39.7	41.1	41.8		25dB
Standard Deviation (dB)	4.1	3.0	3.2	2.8	3.8	3.1	3.4	3.4	2.4		
Real-Ear Protection (dB)	12.9	19.5	23.5	27.3	27.1	35.0	32.9	34.3	37.0		

European PPE Certification (Standard Headband)

Frequency (Hz)	63	125	250	500	1000	2000	3150	4000	6300	8000	SNR
Mean Attenuation (dB)	19.1	20.0	23.1	26.9	27.6	30.6	37.8	38.7	39.5	39.8	29dB
St. dev. (dB)	4.3	3.3	2.6	2.7	2.2	3.8	2.7	3.2	3.4	2.9	
APV (84%)	14.8	16.7	20.5	24.2	25.4	26.8	35.1	35.5	36.1	36.9	

SM1 Helmet Hearing protector CLASS 5 tested to AS/NZS 1270:2002.
When Selected, used and maintained as specified in AS/NZS 1269, this protector may be used in noise up to 110dB(A) assuming an 85dB(A) criterion. A lower criterion may require a higher protector class.

Attenuation Data		SM, SM1, SM1x, SM1xSR Helmet Model							
F(Hz)		125	250	500	1000	2000	4000	8000	SLC ₉₅
Mean Attenuation (dB)	14.3	19.4	26.5	30.4	32.6	36.8	39.8		27dB
Standard Deviation (dB)	3.2	3.9	4.1	3.3	3.7	4.1	4.2		
Mean minus Standard Deviation (dB)	11.1	15.5	22.4	27.1	28.9	32.7	35.6		

Attenuation Data		SM, SM1, SM1x, SM1xSR Helmet Model									
F(Hz)		125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Attenuation (dB)	20.0	24.2	28.2	30.7	32.6	37.2	38.4	38.7	38.7		23dB
Standard Deviation (dB)	4.3	3.9	3.7	3.1	3.0	3.4	3.7	3.4	2.7		
Real-Ear Protection (dB)	11.4	16.4	20.8	24.5	26.6	30.4	31.0	32.1	33.3		

European PPE Certification (Helmet Mount)

Frequency (Hz)	63	125	250	500	1000	2000	3150	4000	6300	8000	SNR
Mean Attenuation (dB)	17.3	18.9	23.1	26.4	27.9	31.2	36.5	38.4	38.9	39.2	29dB
St. dev. (dB)	4.2	3.8	3.8	2.4	1.9	3.0	2.5	3.6	4.1	2.8	
APV (84%)	13.1	15.1	19.3	24.0	26.0	26.8	34.0	34.8	34.8	36.4	

Replacement Parts & Accessories

Radio Connection Kits

SRCK0006 Radio Connection Kit SM1 Motorola suit GP328Plus/GP344/GP388/GL2000, EX500, EX600
SRCK0007 Radio Connection Kit SM1 Motorola suit GP320/328/340/360/HT750/HT1250/HT1550, PRO5150, WAPIS
SRCK0008 Radio Connection Kit SM1 Motorola suit GP900/HT1000/MTS2000/XTS2250/XTS3000/MX838/1000
SRCK0009 Radio Connection Kit SM1 Motorola suit GP838/300/2000/GP100, CP200/150/EP450/P040/PRG3150/HYT TC-610
SRCK0010 Radio Connection Kit SM1 ICOM suit IC-3063/4063/IC-F50/51/60/61
SRCK0011 Radio Connection Kit SM1 Kenwood suit TK-190/280/290/380/385/480/3140/3148/3180
SRCK0012 Radio Connection Kit SM1 ICOM 2 Pin suit IC-F3/F3S/F4 Vertex VX200/VX300
SRCK0013 Radio Connection Kit SM1 Kenwood 2 Pin suit TK-302/TK-D7/TK-F6/TK-F7
SRCK0014 Radio Connection Kit SM1 Motorola MOTOH90 suit XPR2500/2550/DP400/DP2600
SRCK0015 Radio Connection Kit SM1 Motorola GM300 Dashmount suit GM339/GM300/CDM1250/CDM1550
SRCK0017 Radio Connection Kit SM1 Vertex Multipin suit VX-821/820/824/829/920/921

Accessories

SMBM0001 Sensear Boom Microphone Kit
SCAJ0002 SM1 Cable Spiral Audio (for Radio Connection) 3.5-3.5mm Threaded
SCAJ0004 SM1 MP3 Cable Spiral 3.5mm Unthreaded - 3.5mm Threaded
SMW0001 Microphone Wind Noise Reduction Kit (set of 4)
SMW0000 Sensear SM1 Hygiene Kit
SMAP0000 SM1 Series Absorbent Pads - 5pr
Helmet Mount Adapters
SMHA0000 Helmet Adaptor MSA V-Guard
SMHA0001 Helmet Adaptor Protector Allsafe
SMHA0002 Helmet Adaptor Protector Tuffmaster II/III - Unsafe Unilite

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