



RA5100 Tactical Communication Headset

Versatile headset for both in-vehicle and on-foot missions

The RA5100 tactical communication headset is designed to cater for all types of hearing protection scenarios and across in-vehicle and on-foot missions.

Its core digital technology ensures excellent speech intelligibility, market-leading hearing protection with Active Noise Reduction (ANR) and situational awareness. New features can be added via software upgrades, extending service life and lowering total cost of ownership.

The RA5100 can be battery powered for stand-alone operation, or externally powered.



Hearing protection for all scenarios

Digital and connected

Versatile and rugged

RA5100 Tactical Communication Headset

Headband



Neckband



Hearing protection for all scenarios

- 30 dB SNR / 21 dB NRR through digital Active Noise Reduction (ANR) for protection against constant high noise
- Dual layer hearing protection of 41 dB when combined with EAR Classic foam earplugs
- Hear-through mode with adjustable volume control and digital noise compression of impulse noise

Digital and connected

- Software-enabled feature upgrades without replacing existing hardware
- Detachable cables to vehicle intercom, radio, smart phone, tablet, computer and other in-service equipment
- Prepared for direct digital communication with military and COTS equipment

Versatile and rugged

- Battery powered for stand-alone operation, or externally powered
- Detachable boom microphone, can be fitted either left or right
- Headset submersible to 1 meter for 2 hours
- Qualified to MIL-STD-461G and MIL-STD-810G

Specifications (headband version)

Weight on the head	448 g / 15.8 oz
Communication modes	Programmable binaural/monaural
Frequency response	100 Hz to 10 kHz
Microphone boom arm	Detachable, can be fitted either left or right
Interface cable	Customizable and detachable
Digital output	USB
Active Noise Reduction (ANR)	Advanced digital ANR, battery or external powered
Received comms volume	Adjustable -12, -6, 0, +6 dB
Hear-through volume	Adjustable -6, 0, +6, +12 dB
Power	Internal 1 x AA Battery, external 4.5V - 9.0 Vdc
Overall noise attenuation	EN 352, ANSI S3.19, ANSI S12.42, ANSI S12.6, AS/NZS 1270
Immersion (fresh water)	IP 67 (1 meter for 2 hours)
EMC standards	MIL-STD-461G (50 V/M)
Approvals, Directives	CE, WEEE
Environmental tests	MIL-STD-810G and the equivalent standards

EN 352-5 (ANR on) SNR = 30 dB, L=22 dB, M=27 dB, H=31 dB									SNRm	Hm	Mm	Lm
Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	31.3	33.5	28.6	24.5
Sound Attenuation (dB)	17.2	18.7	22.7	27.1	28.7	32.0	40.0	42.1				
Standard Deviation (dB)	2.3	2.8	2.3	2.3	1.9	3.0	2.7	2.2				
Assumed Protection Value (dB)	14.9	15.9	20.4	24.8	26.8	29.0	37.3	39.9				

SNRs	Hs	Ms	Ls
1.7	2.4	1.7	2.1

ANSI S3.19-1974 (ANR off) NRR = 21 dB CSA Class: B									
Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Sound Attenuation (dB)	14.8	15.9	21.4	27.0	35.6	41.8	44.0	42.6	42.6
Standard Deviation (dB)	2.4	2.0	1.9	2.0	2.4	3.5	2.7	3.3	3.6

Additional 3 dB of hearing attenuation when ANR is active.

* RA5100 is designed to protect against hazardous noise. Stated hearing protection levels could be affected by the presence of any items worn between headset ear cushions and the ear.

Certified to: Shock, bump, impact, vibration, dust, sand, humidity, mist, salt, fog, driving rain, immersion, solar, altitude, fungal and fluid contamination.



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