



RA5001 Raptor Medium Noise Headset

Clear, reliable communication and hearing protection for wheeled vehicles

Proven by over half a million users, RA5001 Raptor headset offers trusted performance, reliability and excellent value. The headset includes Active Noise Reduction (ANR), communication intelligibility, and situational awareness with monaural as well as stereo variance.

Incorporated in a lightweight, comfortable and extremely rugged design, it is ideal for use with commercial and military intercom systems within wheeled vehicles, shelters, and Tactical Operations Centres.

The chest mounted push-to-talk (PTT) unit reduces head borne weight and allows users to select between microphone, listen-only, and radio modes.

**Active Noise Reduction (ANR)
for safer longer missions**

**Excellent speech intelligibility
and communications in
medium noise environments**

RA5001 Raptor Medium Noise Headset



Neckband and over helmet strap



Push-To-Talk unit for RA5001

Hearing protection for medium noise environments

- Active Noise Reduction (ANR) SNR 23dB / NRR 16 dB, for safer and longer missions
- High intelligibility communications in medium noise environments
- Profiled earshell and headstrap assembly, allows user to put on and take off whilst retaining ballistic protection
- Hear-through microphones, for accurate situational awareness (powered from Intercom or AA battery)
- High reliability in harsh and wet environments – IP67 immersible
- Chest mounted switchbox reduces on the head weight and physical burden
- Resistant to ferrous particles for continuous use in high iron environments
- Swappable boom microphone assembly to accommodate left or right handed shooters and reversible molle clip for left or right hand users

Specifications

Weight on the head	499 g (17.6 ounces)
Napeband force (adjustable)	9.0/13.9 N (2.0/3.1 pounds)
Communication modes	Mono and Stereo options
Frequency response	250 Hz to 4.5 kHz
Input impedance	500 Ω
Comms sensitivity	Nominal 103 dB SPL
Boom microphone	150 Ω dynamic noise cancelling, anti-magnetic, immersible
Microphone sensitivity	Typical -56 dB
Active Noise Reduction (ANR)	ANR external powered
PTT	3 positions, located on switchbox
Hear-through (HT) control	Off/On button on switchbox
External power (HT + ANR)	13.5 to 33 VDC
Internal power (HT)	1 × AA 1.5 V cell, up to 150 hours
Interface cable	Terminated to suit requirements
Temperature	-40° / +51°C [-40 / 123 °F] Operating -57° / +71°C [-70.6 / 159 °F] Storage
Immersion (fresh water)	IP67, 1 meter for 2 hours
EMC conformity	EN 61000, MIL-STD-461F 50 V/M EN 55022, EN 55024, ESD
Safety	EN 60950-1

Noise attenuation	EN 352, ANSI S3.19, ANSI S12.42
MTBF	32 714 hours
Export control	Commercial product, No Licence Required
Environmental tests	MIL-STD-810G and the equivalent standards

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

EN 352-1: 2020 (ANR off) SNR = 23 dB, H = 28 dB, M = 20 dB, L = 16 dB									SNRm	Hm	Mm	Lm
Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	24.8	30.2	21.5	17.6
Sound Attenuation (dB)	18.8	18.5	14.7	16.9	24.6	30.5	37.5	36.9				
Standard Deviation (dB)	2.7	2.6	2.0	1.8	2.3	2.5	2.4	2.5				
Assumed Protection Value (dB)	16.0	15.9	12.8	15.1	22.3	28.0	35.1	34.4				

SNRs	Hs	Ms	Ls
1.4	1.9	1.4	1.5

ANSI S3.19 (ANR off) NRR = 16 dB, CSA Class: B										
Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	
Sound Attenuation (dB)	16.3	13.5	16.7	25.3	31.1	38.8	41.1	38.2	37.4	
Standard Deviation (dB)	3.5	2.4	2.8	3.2	2.6	3.4	3.5	4.1	4.2	

* RA5001 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.



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