

RA5001

Raptor Medium Noise Environment Headset

Headsets: Vehicle Operations



RA5001 RAPTOR headset offers Active Noise Reduction (ANR) communication intelligibility, and situational awareness.

The RAPTOR headset provides monaural or stereo communication, passive and active hearing protection, clear communication intelligibility and hear through situational awareness, incorporated in a lightweight, comfortable and extremely rugged design. It is ideal for use with next-generation commercial and military intercom systems within wheeled vehicles, shelters, and tactical operations centres. The chest mounted press-to-talk (PTT) unit reduces head borne weight and allows users to select between microphone, listen-only, and radio modes.



Key Benefits

- Hearing Protection ★
- Situation Awareness ★★
- Speech Intelligibility ★★















Technologies

ANR

Benefits

- Active Noise Reduction (ANR) SNR 23 db, for safer 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
- Battery powered Hear Through (HT) microphones, for accurate situational awareness runs on 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

Accessories and Add-Ons

 <p>Earcushion Kit 568989</p>	 <p>Microphone Muffler 568990</p>	 <p>Neckband + Overhead Straps 568990</p>	 <p>Neckstrap with Buckle 568992</p>	 <p>Headband Cover 701535</p>
 <p>Battery Cover 568993 with clothing clip</p>	 <p>Chinstrap 553435</p>	 <p>Chinstrap with Buckle 553436</p>	 <p>Extension Cable Part Number on Request</p>	
 <p>Soft Liner Small/Medium 566743 Medium/Large 566743</p>	 <p>Headband Assembly 701549 Conversion Kit</p>			
 <p>Ballistic Helmet V50 Rating 650m/s 701140-X Colours available</p>	 <p>Bump Helmet (Non Ballistic) 701019-X Colours available</p>	 <p>Headset/Helmet Storage Bag (Padded) 701145</p>		

Specifications

Weight on the Head	499 g
Napeband Force (adjustable)	9.0/13.9 N
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 Switch	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 x AA 1.5 V cell, up to 150 hours
Interface Cable	Terminated to suit requirements
Temperature	- 40°C Operating - 57°C Storage
Immersion	IP67, 1 metre for 2 hours
Electromagnetic Conformity	EN61000, MIL-STD-461F 50 V/m, EN55022, EN55024, ESD
Safety	EN60950-1
Noise Attenuation	EN352, ANSI S3.19, ANSI S12.42
MTBF	32,714 hours
Export Control	Commercial product, No Licence Required
Environmental Tests	EN60068, MIL-STD-810G

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

Noise Reduction

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean (dB)	23.6	19.1	13.8	24.6	29.7	38.7	37.3
Standard Deviation (dB)	1.3	1.2	1.8	0.6	0.6	0.3	0.4

SNR = 23, H = 28, M = 19, L = 16, NRR = 18

Product Part Numbering System

Part Number	Mono	Stereo	Microphone		Switching			Connector	NSN	System	Download Length	
			Amplified	Switched	Lock	Centre	Momentary				Upper	Lower
RA5001/1/0025	✓		✓		470 Ω	Off	0 Ω	AP-107	5965-99-615-7785	VIC3, Tocnet, RF7800i	465 mm	370 mm
RA5001/1/1026	✓		✓		470 Ω	Off	0 Ω	AP-107		VIC3, Tocnet, RF7800i	685 mm	1000 mm
RA5001/1/2020	✓		✓		Off	Off	0 Ω	AP-107	5965-99-156-1884	SOTAS, DRS	465 mm	370 mm
RA5001/1/4024	✓		✓	✓	Off	Off	0 Ω	AP-107		FONET	465 mm	370 mm
RA5001/1/5042		✓	✓		470 Ω	Off	0 Ω	AP-107		SOTAS	465 mm	370 mm
RA5001/1/5052		✓		✓	22 k Ω	Off	0 Ω	AP-107		Meshnet	465 mm	370 mm

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All specifications are subject to change without notice
The information contained herein is for reference only and does not constitute a warranty of performance

Partnered Supplier



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