RACAL ACOUSTICS

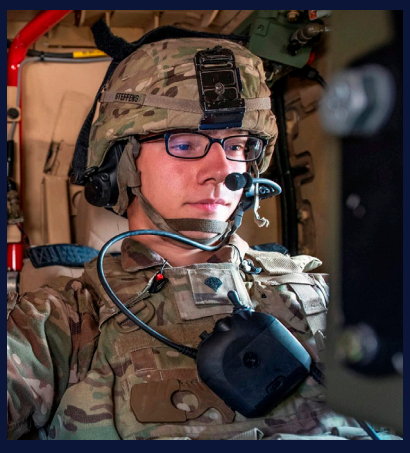
RA5001 RAPTOR

Medium Noise Environment Headset

BEST IN CLASS HEARING

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		TECHNOLOGIES
HEARING PROTECTION	→ ★	ANR
SITUATION AWARENESS	→ ★★	
SPEECH INTELLIGIBILITY	→ ★★	

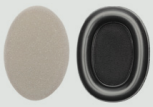
BENEFITS & EXTRAS

RA5001 RAPTOR Medium Noise Environment Headset

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 & ADD-ONS



EARCUSHION KIT
568989

MICROPHONE MUFFLER
568990

NECKBAND + OVERHEAD STRAPS
568991

NECKSTRAP WITH BUCKLE
568992

HEADBAND COVER
701535

BATTERY COVER
568993
WITH CLOTHING CLIP

CHINSTRAP
553435

CHINSTRAP WITH BUCKLE
553436

EXTENSION CABLE
PART NUMBER UPON REQUEST

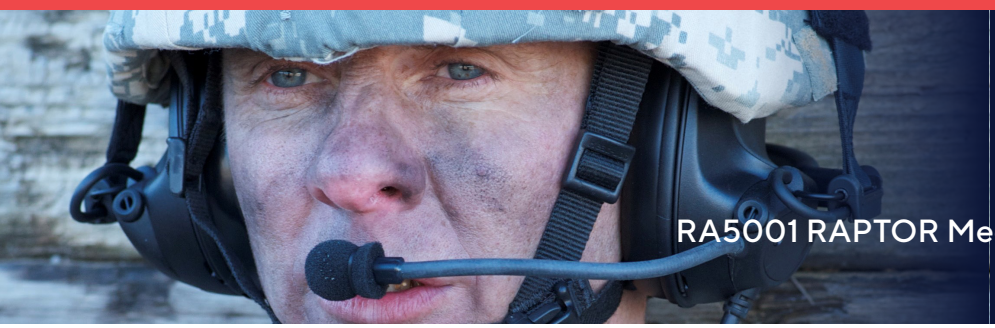
SOFT LINER
566743/S-M
566743/M-L

HEADBAND ASSEMBLY
701549
CONVERSION KIT

BALLISTIC HELMET V50 RATING 650m/s
701140-X
COLOURS AVAILABLE

BUMP HELMET (NON BALLISTIC)
701019-X
COLOURS AVAILABLE

HEADSET/HELMET STORAGE BAG (PADDED)
701145



SPECIFICATION

RA5001 RAPTOR Medium Noise Environment Headset

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 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° / +51°C Operating -57° / +71°C Storage

IMMERSION	IP67, 1 meter 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
STDEV	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	Downlead length (mm)	
			Amplified	Switched	Lock	Centre	Momentary				Upper	Lower
RA5001/1/0025	√		√		470 Ohm	Off	0 Ohm	AP107	5965-99-615-7785	VIC3, Tocnet, RF7800i	465	370
RA5001/1/1026	√		√		470 Ohm	Off	0 Ohm	AP-107		VIC3, Tocnet, RF7800i	685	1000
RA5001/1/2020	√		√		Off	Off	0 Ohm	AP-107	5965-99-156-1884	SOTAS, DRS	465	370
RA5001/1/4024	√		√	√	Off	Off	0 Ohm	AP-107		FONET	465	370
RA5001/1/5042		√	√		470 Ohm	Off	0 Ohm	AP-107		SOTAS	465	370
RA5001/1/5052		√		√	22k Ohm	Off	0 Ohm	AP-107		Meshnet	465	370

CONTACT INFORMATION

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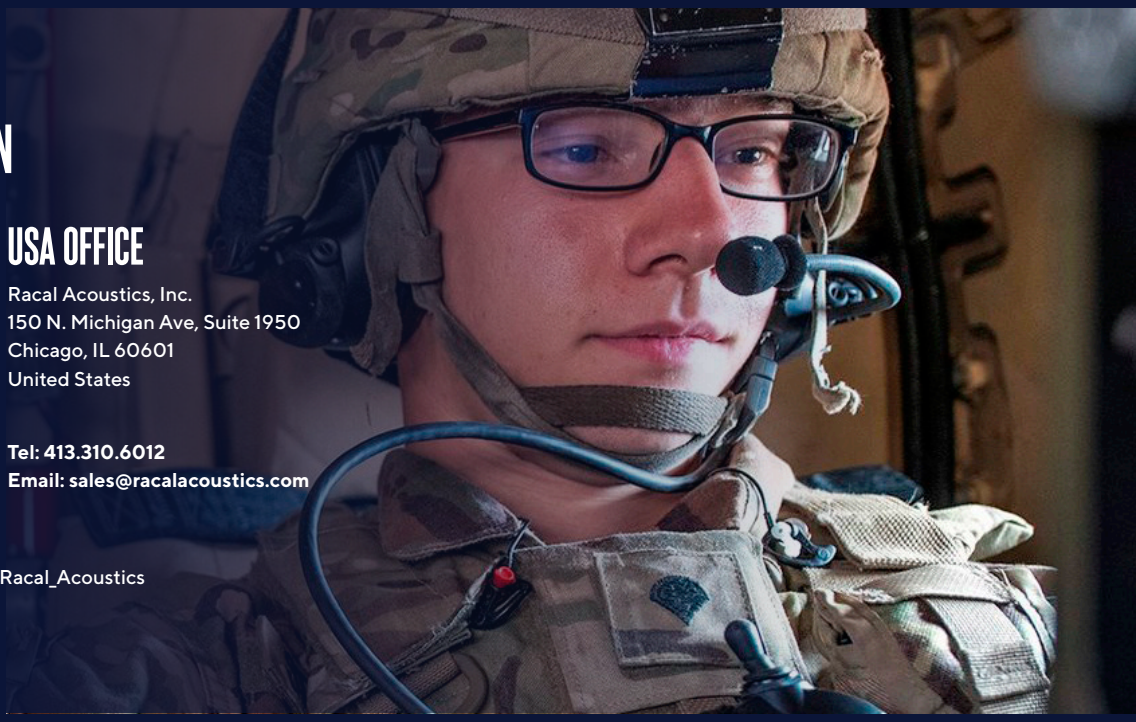
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