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
- HEARING PROTECTION
- SITUATION AWARENESS
- SPEECH INTELLIGIBILITY
- ANR

RA5001 RAPTOR  WWW.RACALACOUSTICS.COM
**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**
  - SMALL/MEDIUM 568743
  - MEDIUM/LARGE 568743

- **Headband Assembly**
  - 701540
  - CONVERSION KIT

- **Ballistic Helmet V50 Rating 650m/s**
  - 701140-X
  - COLOURS AVAILABLE

- **Bump Helmet (Non Ballistic)**
  - 701018-X
  - COLOURS AVAILABLE

- **Headset/Helmet Storage Bag (Padded)**
  - 701145
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˚ / +71˚C Operating
| -57˚ / +51˚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

<table>
<thead>
<tr>
<th>FREQUENCY (HZ)</th>
<th>MEAN (dB)</th>
<th>STDEV (dB)</th>
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<tbody>
<tr>
<td>125</td>
<td>23.6</td>
<td>1.3</td>
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<tr>
<td>250</td>
<td>19.1</td>
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<tr>
<td>500</td>
<td>13.6</td>
<td>1.8</td>
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<td>1000</td>
<td>24.6</td>
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<td>2000</td>
<td>29.7</td>
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<td>8000</td>
<td>37.3</td>
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SNR=23, H=28, M=19, L=16, NRR=18

### PRODUCT PART NUMBERING SYSTEM

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<tr>
<th>Part Number</th>
<th>Mono</th>
<th>Stereo</th>
<th>Microphone</th>
<th>Switching</th>
<th>Connector</th>
<th>NSN</th>
<th>System</th>
<th>Downlead length (mm)</th>
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<tbody>
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<td>√</td>
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<td>√</td>
<td>Amplified</td>
<td>470 Ohm</td>
<td>Off</td>
<td>O Ohm</td>
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<td>√</td>
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CONTACT INFORMATION

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