



RA4000 High Noise Headset

Ultimate hearing protection in high noise environments

The RA4000 headset delivers best-in-class hearing protection, communications intelligibility and situational awareness for any vehicle platform.

As a complete and digital solution, it offers modular, customizable, and upgradeable features and accessories to match specific mission requirements and extend useful life.

The RA4000 can be battery powered for stand-alone operation and complies to industry safety standards.

Active Noise Reduction (ANR)

Communications intelligibility and adjustable hear-through

Upgradeable software-defined features

Rugged and reliable

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Helmet liner



Soft liner



Neckband with straps

Headset wearing options

Wearing options include adjustable helmet liner with chin strap, behind-the-head neckband with over-head or over-helmet strap, over-the-head headband, or combinations of these plus a range of optional helmets.

Ultimate hearing protection in high noise environments

- Missions – Active Noise Reduction (ANR)
- High speech intelligibility binaural communications in high noise
- Binaural hear-through – for accurate situational awareness
- Hearing remains protected when dismounted – runs on AA battery
- High reliability in harsh and wet environments – IP68 immersible
- Easy to use – ergonomic PTT, mode and volume controls
- Connect to a wide range of vehicle intercom systems with detachable IntelliCable cables
- Common hardware with software defined feature set – upgradeable

Specifications

Weight on the head	Headband: 640 g / 22.6 oz Neckband with straps: 660 g / 23.3 oz Helmet liner M/L: 856 g / 30.2 oz
Communication modes	Programmable binaural/monaural
Frequency response	100 Hz to 10 kHz
Input impedance	500 Ω
Input range	Programmable up to 5 V
Comms sensitivity	Programmable up to 114 dB SPL
Removable boom microphone	150 Ω dynamic noise cancelling, anti-magnetic, immersible
Microphone sensitivity	Programmable
Active noise reduction (ANR)	Advanced digital ANR, battery or external powered
Binaural hear-through	Digital compression to 85 dBA, battery or external powered
PTT switch	3 Positions, located on left earshell
Received comms volume	Adjustable -6, 0, +6, +12 dB
Hear-through volume	On/off, adjustable -6, 0, +6, +12 dB
External power	4.5 to 36 VDC, 1 W (3.5 W peak inrush)

Internal power	1 × AA 1.5 V battery operation when dismounted
Interface cable	Customizable and detachable to match equipment specifications
Compatibility	Radios, intercoms, smart phones
Temperature	-40° / +65° C [-40° / +149° F] operating -57° / +71° C [-71° / +160° F] storage
Immersion (fresh water)	MIL-STD-810G 1.1 meter for 2 hours, equivalent to IP68
EMC standards	MIL-STD-461G (50 V/M), EN 55032, EN 55035
Safety	EN 62368
Noise attenuation	EN 352, ANSI S3.19, ANSI S12.42, ANSI S12.6, AS/NZS 1270
MTBF	42 710 hours
Approvals, directives	CE, WEEE
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.
* RA4000 is designed to protect against hazardous noise. Hearing protection levels could be affected by the presence of any items worn between headset ear cushions and the ear.



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