

RA4000

High Noise Headset



Ultimate hearing protection in high noise environments

The RA4000 Magna™ 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, customisable, and upgradeable features and accessories to match specific mission requirements and extend useful life.

The RA4000 Magna has built-in power for stand-alone operation and complies to industry standards.

Key benefits

- Active Noise Reduction (ANR) SNR 36dB
- Communications intelligibility and adjustable talk-through
- Upgradeable software-defined features
- Rugged and reliable

RA4000 Headset























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

Ultimate hearing protection in high noise environments

- Safer longer missions - Active Noise Reduction (ANR) SNR 36 dB
- High intelligibility binaural communications in high noise
- Binaural talk-through - for accurate situational awareness
- Remain 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 any communication system with detachable downloads
- Common hardware with software defined feature set - upgradeable

Extras & Specifications

Accessories & spareparts

 Soft liner 701403-Small/medium 701404-Medium/large	 Chin strap 701649-Small/medium 701565-Medium/large	 Ear cushion kit 701008	 Microphone muffler 700947-Standard 565623-Large	 Neckband cover 701444
 Flexi boom mics 700567-Standard 701150-Large	 Ear cup assembly 700597-X Colours available	 Battery cover 701264-X Colours available	 Foam kit 701204	 Neckband assembly 701384
 Usb programming 701043	 Respirator adaptor 700429	 Throat microphone 568930	 Extension cable On Request	 Clothing clip 700950
 Stirrup guide clip 700583	 Ballistic helmet v50 Rating 650m/s 701140-X Colours available	 Ballistic helmet v50 Rating 650m/s 701142-X Colours available	 Bump helmet (Non-ballistic) 701019-X Colours available	 Headset/helmet Storage bag (padded) 701145

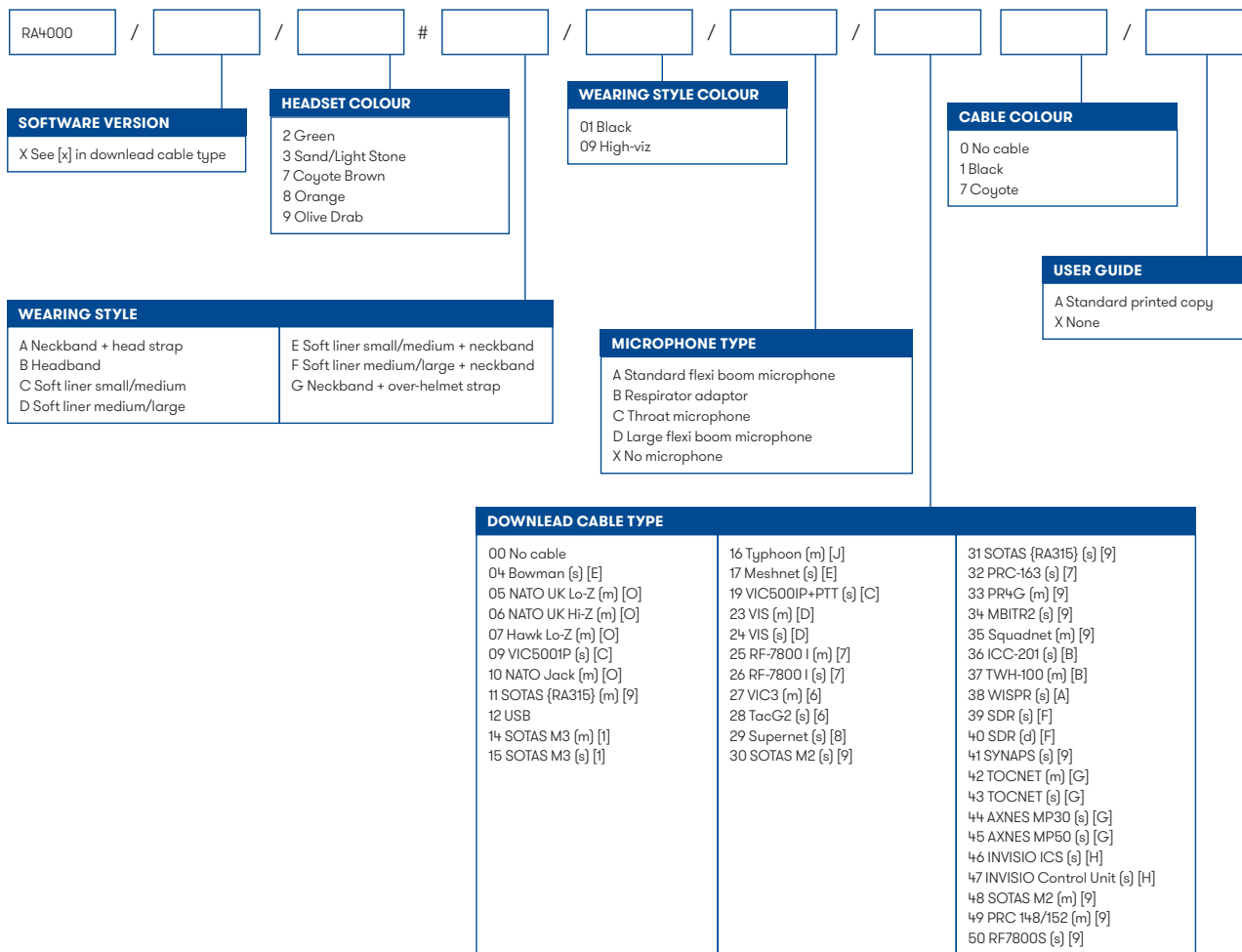
Specifications

Weight on the head	650 g (23 ounces)	Compatibility	Radios, intercoms, smart phones										
Neckband force (adjustable)	12.2/14.5 N (2.7/3.3 pounds)	Temperature	-40° / +65°C operating -57° / +71°C storage										
Communication modes	Mono, stereo, programmable	Immersion	MIL-STD-810G 1.1 meter for 2 hours, equivalent to IPx8										
Frequency response	100 Hz to 10 kHz	Electromagnetic conformity	MIL-STD-461F 50 V/m, EN55022, EN55024										
Input impedance	500 Ω	Safety	EN60950-1										
Input range	Programmable up to 5V	Noise attenuation	EN352, ANSI S3.19, ANSI S12.42, AS/NZS 1270										
Comms sensitivity	Programmable up to 114 dB SPL	MTBF	42,710 hours										
Removable boom microphone	150 Ω dynamic noise cancelling, anti-magnetic, immersible	Approvals, directives	CE (LVD, RoHS and PPE), WEEE										
Microphone sensitivity	Sensitivity -90 dB	Environmental tests	MIL-STD-810G and the equivalent standards										
Microphone output range	Programmable up to 1.5 V	<p>Certified to: shock, bump, impact, vibration, dust, sand, humidity, mist, salt fog, driving rain, immersion, solar, altitude, fungal and fluid contamination.</p> <p>Hearing protection could be affected by the presence of any items worn between ear cushions and the ear.</p>											
Active noise reduction (ANR)	Advanced digital ANR, battery or external powered												
Binaural talk-through	Digital compression to 85 dBA, battery or external powered												
PTT switch	3 Positions, located on left earshell												
Talk-through volume control	Off/on, adjustable -6/0/+6/+12 dB												
Comms volume control	Adjustable -6/0/+6/+12 dB	Attenuation RA4000 MAGNA™ headset with soft liner and neckband											
External power	4.5 to 36 VDC, 1 W (3.5 W peak inrush)	Frequency	Hz	63	125	250	500	1000	2000	4000	8000		
Internal power	1 × AA 1.5 V cell operation when dismounted	Mean	dB	22.5	24.7	30.8	33.8	38.0	40.9	43.2	41.3		
Interface cable	Detachable, configured and terminated to suit equipment requirements	STDEV	dB	3.5	3.8	2.6	2.8	3.6	3.5	3.1	2.9		

SNR=36, H=38, M=34, L=28, NRR=31

SNR=36, H=38, M=34, L=28, NRR=31

Product part numbering system



KEY: (m) Mono (s) Stereo (d) Differential [x] Software version

Racal Acoustics Ltd. – part of the INVISIO Group

Racal Acoustics provide situational awareness, hearing protection and communication solutions. Our products are customised specifically for end-user applications and offer exceptional situational awareness, hearing protection in a range of noise environments, and deliver reliable, versatile audio communications while maintaining the highest levels of user safety and comfort. Sales are made via our UK facility and sales office in the US, as well as a global network of partners.

racalacoustics.com