



High Noise Environment Headset

BEST IN CLASS HEARING

RA4000 Magna[™] digital headset delivers best-in-class hearing protection, communication intelligibility and situational awareness.

The RA4000 Magna[™] headset offers unprecedented performance in hearing protection, communications intelligibility, high reliability, and versatility, for outstanding overall value. As a complete solution, it offers modular, customisable, and upgradeable features and accessories to match specific mission requirements and extend useful life.







KEY BENEFITS HEARING PROTECTION SITUATION AWARENESS SPEECH INTELLIGIBILITY TECHNOLOGIES 3D DIGITAL ANR

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BENEFITS & EXTRAS

RA4000 Magna[™] High Noise Environment Headset

BENEFITS

- 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 downleads
- Common hardware with software defined feature set - upgradeable



ACCESSORIES & ADD-ONS

		QO		
SOFT LINER SMALL/MEDIUM 701403 MEDIUM/LARGE 701404	CHIN STRAP Small/medium 701649 medium/large 701565	EAR CUSHION KIT	MICROPHONE MUFFLER Standard 700947 Large 565623	NECKBAND COVER 701444
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FLEXI BOOM MICS SMALL 700567 LARGE 701150	EAR CUP ASSEMBLY 700597-X COLOURS AVAILABLE	BATTERY COVER 701264-X COLOURS AVAILABLE	FOAM KIT 701204	NECKBAND ASSEMBLY 701384
Ö				
USB PROGRAMMING CABLE	RESPIRATOR ADAPTOR 700429	THROAT MICROPHONE	EXTENSION CABLE on request	
	A starter			
BALLISTIC HELMET V50 Rating 650m/s	BALLISTIC HELMET V50 Rating 650m/s	BUMP HELMET (Non-Ballistic)	HEADSET/HELMET Storage Bag (padded)	
701140-X COLOURS AVAILABLE	701142-X COLOURS AVAILABLE	701019-X COLOURS AVAILABLE	701145	



SPECIFICATION

RA4000 Magna[™] High Noise Environment Headset

WEIGHT ON THE HEAD	650 g (23 ounces)			
NECKBAND FORCE (ADJUSTABLE)	12.2/14.5 N (2.7/3.3 pounds)			
COMMUNICATION MODES	Mono, Stereo, Programmable			
FREQUENCY RESPONSE	100 Hz to 10 kHz			
INPUT IMPEDANCE	500 Ω			
INPUT RANGE	Programmable up to 5V			
COMMS SENSITIVITY	Programmable up to 114 dB SPL			
REMOVABLE BOOM MICROPHONE	150 Ω dynamic noise cancelling, antimagnetic, immersible			
MICROPHONE SENSITIVITY	Sensitivity -90 dB			
MICROPHONE OUTPUT RANGE	Programmable up to 1.5 V			
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			

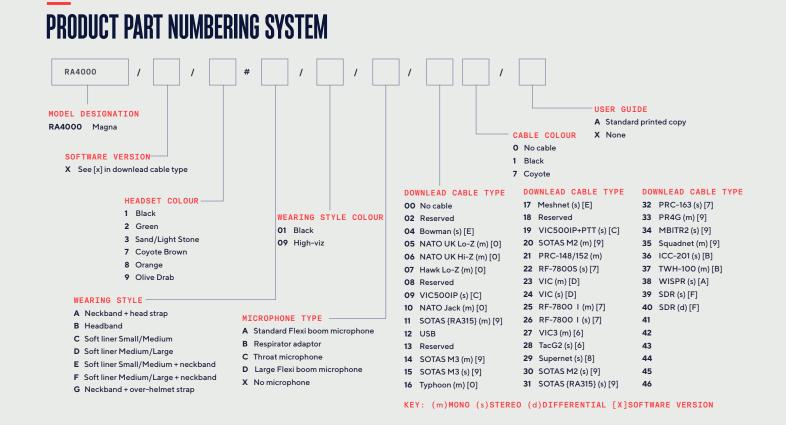
Attenuation RA4000 MAGNA™ headset with soft liner and neckband

FREQUENCY	нz	63	125	250	500	1000	2000	4000	8000
MEAN	dB	22.5	24.7	30.8	33.8	38.0	40.9	43.2	41.3
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

EXTERNAL POWER	4.5 to 36 VDC, 1 W (3.5 W peak inrush)			
INTERNAL POWER	1 x AA 1.5 V cell operation when dismounted			
INTERFACE CABLE	Detachable, configured and terminated to suit equipment requirements			
COMPATABILITY	Radios, intercoms, smart phones			
TEMPERATURE	-40° / +65°C operating -57° / +71°C storage			
IMMERSION	IP68, 1.1 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, AS/NZS 1270			
MTBF	42,710 hours			
APPROVALS, DIRECTIVES	CE, LVD, RoHS, WEEE, PPE			
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.



RA4000 MAGNA™ WWW.RACALACOUSTICS.COM

CONTACT INFORMATION

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