



RA4000 MAGNA™

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



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



SOFT LINER

SMALL/MEDIUM 701403
MEDIUM/LARGE 701404



CHIN STRAP

SMALL/MEDIUM 701649
MEDIUM/LARGE 701565



EAR CUSHION KIT

701008



MICROPHONE MUFFLER

STANDARD 700947
LARGE 565623



NECKBAND COVER

701444



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



USB PROGRAMMING CABLE

701043



RESPIRATOR ADAPTOR

700429



THROAT MICROPHONE

568930



EXTENSION CABLE

ON REQUEST



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

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, anti-magnetic, 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

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.

Attenuation RA4000 MAGNA™ headset with soft liner and neckband

FREQUENCY	HZ	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

PRODUCT PART NUMBERING SYSTEM



KEY: (m) MONO (s) STEREO (d) DIFFERENTIAL [X] SOFTWARE VERSION

CONTACT INFORMATION

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