



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
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 SMALL
701150 LARGE




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
COMPATIBILITY	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

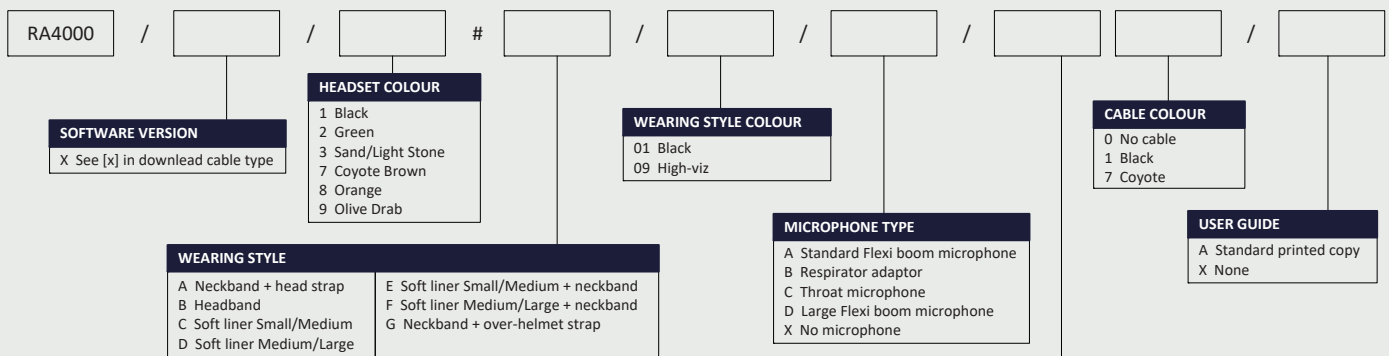
Certified to: shock, bump, impact, vibration, dust, sand, humidity, mist, salt fog, driving rain, immersion, solar, altitude, fungal and fluid contamination.

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



DOWNLOAD CABLE TYPE		
00 No cable	16 Typhoon (m) [0]	31 SOTAS {RA315} (s) [9]
01 Reserved	17 Mesnet (s) [E]	32 PRC-163 (s) [7]
02 Reserved	18 Reserved	33 PR4G (m) [9]
04 Bowman (s) [E]	19 VIC500IP+PTT (s) [C]	34 MBITR2 (s) [9]
05 NATO UK Lo-Z (m) [O]	20 SOTAS M2 (m) [9]	35 Squadnet (m) [9]
06 NATO UK Hi-Z (m) [O]	21 PRC-148/152 (m)	36 ICC-201 (s) [B]
07 Hawk Lo-Z (m) [O]	22 RF-7800S (s) [7]	37 TWH-100 (m) [B]
08 Reserved	23 VIC (m) [D]	38 WISPR (s) [A]
09 VIC5001P (s) [C]	24 VIC (s) [D]	39 SDR (s) [F]
10 NATO Jack (m) [O]	25 RF-7800 I (m) [7]	40 SDR (d) [F]
11 SOTAS {RA315} (m) [9]	26 RF-7800 I (s) [7]	41
12 USB	27 VIC3 (m) [6]	42
13 Reserved	28 TacG2 (s) [6]	43
14 SOTAS M3 (m) [9]	29 Supernet (s) [8]	44
15 SOTAS M3 (s) [9]	30 SOTAS M2 (s) [9]	45


KEY: (m) Mono (s) STEREO (d) DIFFERENTIAL [x] SOFTWARE VERSION

CONTACT INFORMATION

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