

RA5100

Tactical Communication Headset



30 dB
SNR

Versatile headset for both in-vehicle and on-foot missions

The RA5100 Tactical Communication headset is designed to cater for all types of hearing protection scenarios and across in-vehicle and on-foot missions.

Its core digital technology ensures excellent speech intelligibility, market-leading hearing protection of 30 dB SNR with Active Noise Reduction (ANR) and situational awareness. New features can be added via software upgrades, extending service life and lowering total cost of ownership.

The RA5100 has built-in power for stand-alone operation, or can be externally powered for reduced weight.

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Key benefits

- Hearing protection for all scenarios
- Digital and connected
- Versatile and rugged

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RA5100 Headset

Extras & Specifications



RA5100 is available in a headband configuration.



Hearing protection for all scenarios

- 30 dB SNR through digital Active Noise Reduction (ANR) for protection against constant high noise
- Double hearing protection of 41 dB SNR for high noise environments
- Hear-through mode with adjustable volume control and digital noise compression of impulse noise

Digital and connected

- Remote, software-enabled performance upgrades without replacing existing equipment
- Detachable smart downloads to intercom, radio, smart phone, tablet, computer and in-service equipment
- Prepared for direct digital communication with industry-leading communication devices

Versatile and rugged

- Built-in power for stand-alone operation, or externally powered for reduced weight
- Detachable, left or right mounted microphone
- Headset submersible to 1 meter
- Qualified to MIL-STD-461G and MIL-STD-810G
- Ability to withstand tough electromagnetic environments, shock and vibration

Download and PTT options



RA72 PTT and download
Connects to various industry-leading radios



Download to INVISIO control unit
701768-001



Download to TP120 for U94 PTT
701772-001 (U94 available in US only)

Accessories & spareparts



Hygiene kit
701675-002 - Black



Earcup foam/gauze (pair)
701599



Headband
701276-002
- Coyote Brown



USB cable
701282



Boom microphone assembly
701604-001 - Tan



Hear-through windscreen
701275



Battery cover
701598



Headband cover
701280-001 - Black



Blanking plug
701603-001 - Tan



Microphone windscreen
700947

Specifications

Weight on the head	448 g
Communication modes	Programmable binaural/monaural
Frequency response	100 Hz to 10 kHz
Microphone boom arm	Left or right-handed, and detachable
Interface cable	Detachable
Digital output	USB
Active Noise Reduction (ANR)	Selectable on/off
Hear-through volume	On/off, adjustable -6/0/+6/+12 dB
Power	Internal 1 x AA Battery, up to 50 hours External 4.5V - 9.0 Vdc
Overall noise attenuation	EN 352-5 SNR 30 dB, H-M-L 31/27/22 dB, ANSI S12.6 NRS _{A80} 23 dB, NRS _{A20} 29 dB AS/NZS 1270 SLC ₈₀ 26 dB, Class 5
Immersion	IP 67 (1 meter for 2 hours)
EMC conformity	MIL-STD-461G (50 V/M), EN 55032 (2015) / AC (2016) and EN 55035 (2007)
Approvals, Directives	CE, LVD, RoHS, WEEE, PPE
Environmental	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.

EN 352-5 (ANR on)								
SNR = 30 dB, L=22 dB, M=27 dB, H=31 dB								
Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Sound Attenuation (dB)	17.2	18.7	22.7	27.1	28.7	21.0	40.0	42.1
Standard Deviation (dB)	2.3	2.8	2.3	2.3	1.9	3.0	2.7	2.2
Assumed Protection Value (dB)	14.9	15.9	20.4	24.8	26.8	29.0	37.3	39.9

SNRm	Hm	Mm	Lm
31.3	33.5	28.6	24.5

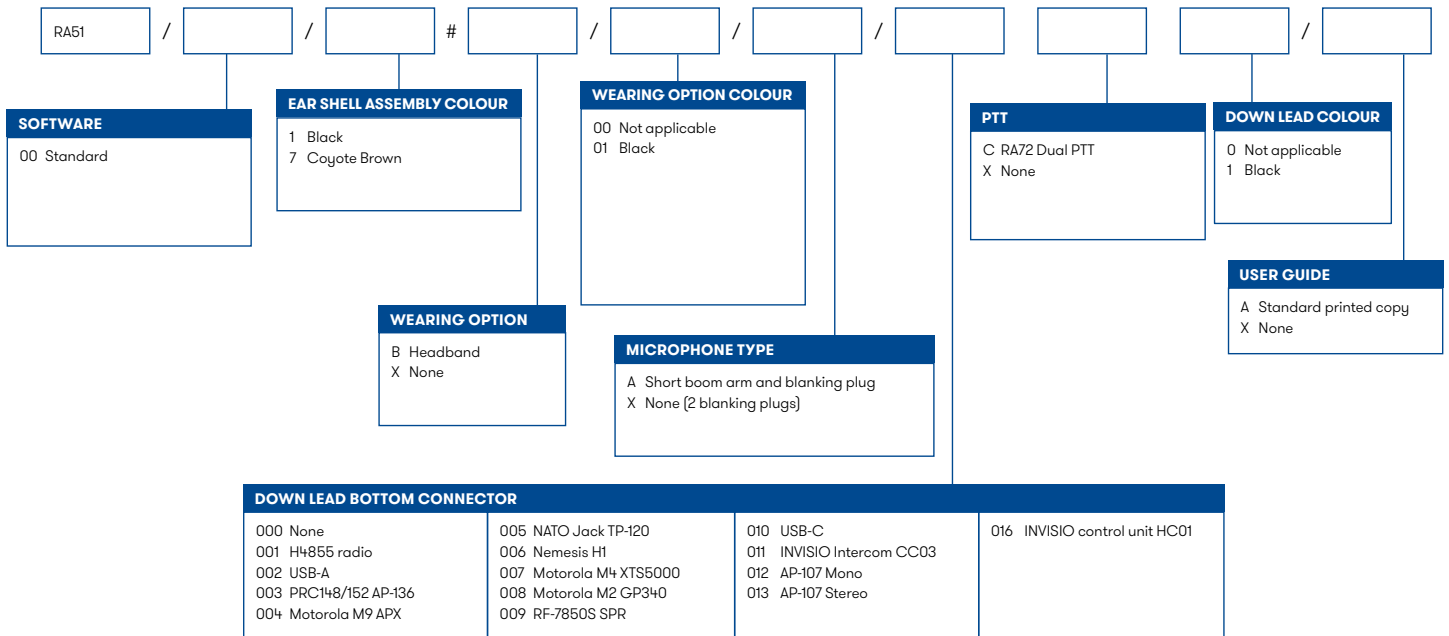
SNRs	Hs	Ms	Ls
1.7	2.4	1.7	2.1

ANSI S3.19-1974 (ANR off)									
NRR = 21 dB CSA Class: B									
Frequency (Hz)	125	250	500	1000	2000	3150	4000	6000	8000
Sound Attenuation (dB)	14.8	15.9	21.4	27.0	35.6	41.8	44.0	42.6	42.6
Standard Deviation (dB)	2.4	2.0	1.9	2.0	2.4	3.5	2.7	3.3	3.6

Additional 3 dB attenuation when ANR is on.

* RA5100 is designed to protect against hazardous noise. Stated hearing protection levels could be affected by the presence of any items worn between headset ear cushions and the ear.

Product part numbering system



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.

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