



RAC™ HEADSET

Rail Attached Communication Headset

Streamlined Design & True 3D Hearing Technology (3DHT) Provide Improved Protection & Situational Awareness

The Rail Attached Communications (RAC) Headset revolutionizes soldier communications, seamlessly integrating into the Ops-Core ARC Rail system. The low profile, rail-mounted design and true 3D Hearing Technology (3DHT) provides improved situational awareness and hearing protection. Designed to be compatible with the Ops-Core FAST® and Sentry® helmet systems, the RAC Headset leaves the top portion of the ARC Rail free for mounting lights, cameras, and other helmet components for optimal system level performance.



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KEY FEATURES

True 3D Hearing Technology (3DHT)

True 3DHT provides natural hearing restoration with our patented ear-simulator design. This unique capability reproduces ambient sounds with a high degree of directional accuracy to preserve and improve situational awareness.

Optimal Comfort

Ergonomically designed, the RAC Headset provides superior comfort with features such as high performance ear cushions and mounting arms located on the helmet exterior. ARC Rail mounting relieves pressure points typically associated with inferior third party headband mounting methods and does not require modifying the helmet liner or retention system.

Streamlined Design

The advanced streamlined design provides freedom of movement and unobstructed head range of motion.

Auto Shut-Down

Shuts device off after two hours of use to preserve batteries. An audible tone alerts the user that shut down is imminent. Pressing either button control resets the timer. AAA batteries provide 100 hours of 3DHT use.

Fail-Safe Communications

In the event of the loss of the battery charge, the headset will continue to operate for communications with only the 3DHT hear-through system not functioning.

Noise Attenuation

As mounted on the lower portion of the ARC Rail on a FAST Helmet:

NRR = 20 (ANSI S3.19-1974)
SNR = 23 (EN352-3)
H = 27
M = 20
L = 16

Contact Us

Gentex Corporation is dedicated to enhancing personal protection and situational awareness for global defense forces, emergency responders, and industrial personnel operating in high performance environments. To learn more about the RAC contact customer service at support@ops-core.com for Americas, Australia, Asia; and sales@helmets.co.uk or +44 (0) 1776 704421 for Europe, Middle East, Africa. For more information on our Gentex, Ops-Core, ALPHA, PureFlo, Filtron, and Dual Mirror branded solutions, visit www.gentexcorp.com. Like us at facebook.com/Gentexcorp or follow us on Twitter @Gentex_Corp.



RAC HEADSET

KEY FEATURES CONTINUED

Featured Components

1. 3D Hearing Technology (3DHT)

By coupling a patented ear simulator design with binaural audio and advanced audio processing the RAC Headset delivers hear-through audio that accurately preserves azimuth and elevation cues to provide situational awareness. Smooth compression algorithms eliminate “clipping.”

2. FAST ARC Rail Attachment

The RAC Headset attaches to the rear of the FAST ARC Rails leaving the top portion of the rails free for mounting accessories, such as lights, cameras, etc.

3. Noise-Cancelling Microphone

Mounts to left or right earcup.

4. Integrated Microphone Mounting & Connection Point

Accepts mask microphones with U-173/U standard plug.

5. Arm Articulation/Latch

Ventilate mode allows the ear cups to be set in ready position, near, but not pressing on the user's head.

6. Single Point Gimbal Attachment

360° adjustment instead of conventional adjustment systems. Auto positions to each individual's ear/head shape.

7. On/Off/Volume/Balance Control

Provides operator full control to personalize the listening experience to suit individual needs. Optional Speaker/Ear Plug Switch used with Inductance Driver System to switch between speaker and earplug.

8. Ear Cushions

High performance to ergonomically fit the head geometry, providing a better seal and increased noise attenuation.

9. Streamlined Stowage

Earcups rotate to the rear of helmet when not in use, creating a very low profile.

10. Quick-Release Downlead Connection

Helmet/headset can be disconnected from the downlead, allowing users to easily remove the helmet as there are no excess cables to consider.

11. Inductance Receiver Earplug

Un-tethered double-layer hearing protection provides noise attenuation in excess of typical Active Noise Reduction (ANR) equipped headsets. Earplugs are battery-free.

Weight

1.1 lbs (500 g) base version
1.2 lbs (545 g) with earplug option

Immersible

IP-67 immersible
IP-68 immersible to 3 m for short durations

Environmental

Tested to MIL-STD-810G

EMI

Tested to MIL-STD-461E

Export Classification

EAR-99

Available Colors:

 Tan  Black  Green  Gray

An assortment of cabling and Push-To-Talk (PTT) systems are available. Please contact us with your specific needs.

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